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16TH ANNUAL REPORT

—— OF THE ——

Board of Fire Commissioners,

—— AND ——

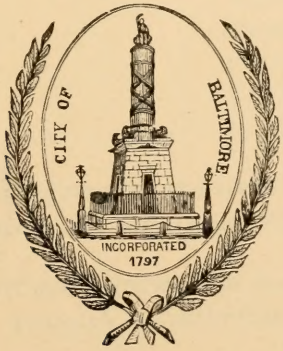
FORTY-FIRST ANNUAL REPORT OF THE FIRE DEPARTMENT

—— TO THE ——

Mayor and City Council of Baltimore

—— FOR THE ——

Fiscal Year Ending December 31, 1899.



BALTIMORE:
WM. J. C. DULANY COMPANY, CITY PRINTERS.

1900

Maryland
JS584
.A1B3
1899

OFFICERS OF THE FIRE DEPARTMENT.

FIRE COMMISSIONERS:

A. ROSZEL CATHCART, - - - - - - - - President.
HON. THOMAS G. HAYES, *ex-officio.*
JAMES CLAY MULLER, CHARLES M. SHORT.

SECRETARY AND CLERK:

STANLEY BAKER.

ASSISTANT CLERK:

WALTER E. HILL.

CHIEF ENGINEER:

WILLIAM C. McAFEE.

DISTRICT ENGINEERS:

First District, - - - - - -	GEORGE W. HORTON.
Second " - - - - - - - -	AUGUST EMRICH.
Third " - - - - - - -	FREDERICK BRANAN.
Fourth " - - - - - - -	FIELDING H. LUCAS.
Fifth " - - - - - - -	LEVIN H. BURKHARDT.
Sixth " - - - - - - - -	E. LOUIS SHIPLEY.

SUPERINTENDENT OF MACHINERY:

GEORGE J. LINSENMEYER.

ASSISTANT SUPERINTENDENT OF MACHINERY:

THOMAS G. GRIFFITH.

SUPERINTENDENT OF FIRE ALARM TELEGRAPH:

FRANK G. BOYD.

REPORT.

OFFICE OF THE BOARD OF FIRE COMMISSIONERS,

BALTIMORE, January 1, 1900.

To the Honorable the Mayor and City Council of Baltimore:

GENTLEMEN:

Article XX, Section 7, City Code, provides that the Board of Fire Commissioners shall annually, on or before the 15th day of January, prepare and make to the Mayor and City Council of Baltimore, an accurate report of the state of the Department and of all purchases and expenditures connected therewith, during the preceding year.

The present state of the Department, with a record of the work performed during the past year, is set forth in extenso in the reports of the Chief Engineer and the Superintendent of Fire-Alarm Telegraph, which are herewith submitted.

The Department is in the highest state of efficiency, which is evidenced by a glance at the results accomplished during the year. Twelve hundred and seventy-four fires occurred, with an average loss of but $344, the total loss for the year being $438,583.

While the element of good fortune is to be taken into consideration, the results attained are due in large degree to the celerity with which alarms are transmitted, the promptness of response by the Department, and the fearless and intelligent work of the members of the Department when the scene of the fire is reached.

As a fire-fighting machine, the Department as it stands to-day is the embodiment of all that modern science, skill and

mechanical ingenuity has been able to devise; manned by men, in the main, intelligent, courageous and devoted. Much of the apparatus in service is peculiar to Baltimore, having had its origin in this Department, and is being copied extensively by other cities.

While it is a fact that no city in the land can boast a superior equipment, so far as quality and comprehensiveness of apparatus is concerned, or a more intelligent and devoted corps of firemen, at the same time it is important to remember that the size of the Department is entirely inadequate to meet the demands, liable at any time to be made upon it. Large sections of the city in which are located valuable properties are still without proper protection; for example, Southwest Baltimore; East Baltimore in the vicinity of Caroline and Lancaster streets; Southeast Baltimore, Canton, and North Baltimore, Waverly.

It is earnestly hoped that the needs of these various sections may receive due consideration, and that the necessary means may be provided for affording the requisite fire protection.

Among the recommendations made by the Chief Engineer in his report, herewith submitted, is that an additional fire-boat be purchased and placed in service. There is at present but one fire-boat in service. When it is disabled, the water front is without protection.

The pipe line system, recommended by the Chief Engineer, is in service in a number of the larger and more progressive cities, and has been found to give most efficient and satisfactory service in the congested districts, at a minimum of cost.

The equipment of all public school buildings with fire-alarm boxes, and the requiring of adequate fire protection in all theatres and places of public amusement and public gathering, looks to the protection of the life of the child and the citizen, and should receive immediate consideration.

The attention of your Honorable Body is most respectfully invited to the reports of the Chief Engineer and the Superin-

tendent of Fire-Alarm Telegraph. The recommendations contained therein look to the betterment of the service, and have the endorsement and approbation of this Board.

The expenditures during the year, Account Department, are set forth in tables hereto annexed.

Respectfully,

A. ROSZEL CATHCART, *Prest.*
JAMES CLAY MULLER,
CHARLES M. SHORT.
} *Fire Commissioners.*

ESTIMATES FOR 1900.

Salaries		$367,900
Apparatus	$10,000	
Apparatus repairs	14,000	
Accident	5,500	
Feed	20,000	
Fuel	6,500	
Furniture	3,700	
Fire-Alarm Telegraph	11,000	
Fire-Alarm boxes	10,250	
Gas	2,500	
Harness	2,250	
Horses	11,500	
Horseshoeing	4,700	
Hose	11,000	
Insurance of members	3,500	
Miscellaneous	3,000	
Oils, paints, storeroom, etc	5,500	
Office expenses	1,500	
Pensioners	12,000	
Sick	2,500	
Telephone rental	1,055	
Washing	3,200	
Wharf rental	600	
	$145,755	
Placing fire-alarm wires in subway	5,000	
Unexpended balance for equipping No. 11 H. and L. Co	6,000	
		156,755
		$524,655

APPROPRIATIONS—City.

Amount appropriated by the Mayor and City Council out of General Levy for 1899	$407,400 00
Amount drawn from Comptroller	407,255 14
Balance undrawn	$144 86

GENERAL STATEMENT.

Amount drawn from Comptroller account general appropriation	$407,255 14	
Amount received from sale of manure and old material	700 60	
		$407,955 74
Expenditures account department	$407,255 14	
Amount paid to City Register	700 60	
		$407,955 74

EXPENDITURES—City, 1899.

Salaries		$302,282 58
Apparatus	5,771 85	
Apparatus repairs	19,843 30	
Accident	2,645 24	
Feed	13,631 54	
Fuel	4,182 11	
Furniture	3,064 79	
Fire-Alarm telegraph	6,800 52	
Gas	1,697 11	
Harness	2,229 56	
Horses	6,230 00	
Horseshoeing	3,533 15	
Hose	5,106 20	
Insurance of members	2,075 00	
Miscellaneous	5,991 52	
Oils, paints, storeroom, etc	4,371 91	
Office expenses	1,146 91	
Pensioners	10,158 07	
Sick	2,611 61	
Telephone rental	740 67	
Washing	2,541 50	
Wharf rental	600 00	
		104,972 56
		$407,255 14

COMPANY EXPENDITURES—City, 1899.

No. 1 Engine Company	$11,958	23
" 2 " "	17,061	71
" 3 " "	11,565	47
" 4 " "	13,278	69
" 5 " "	11,422	26
" 6 " "	12,791	02
" 7 " "	12,658	03
" 8 " "	11,433	74
" 9 " "	11,926	09
" 10 " "	11,529	79
" 11 " "	12,042	10
" 12 " "	11,909	43
" 13 " "	12,319	45
" 14 " "	11,884	57
" 15 " "	23,779	67
" 16 " "	20,773	08
" 17 " "	12 082	68
" 19 " "	12,188	06
" 1 Hook and Ladder Company	11,247	70
" 2 " " " "	12,092	77
" 3 " " " "	11,544	24
" 4 " " " "	12,782	44
" 5 " " " "	12,233	36
" 6 " " " "	12,490	68
" 10 " " " "	12,473	09
Officers' salaries and expenses	22,243	50
Probationary firemen	10,167	54
Office expenses	993	89
Pensioners	10,158	07
Fire-Alarm telegraph	22,663	02
Reserve	4,616	76
Miscellaneous	3,306	69
Storeroom	5,637	32
		$407,255 14

FINANCIAL STATEMENT OF THE FIRE DEPARTMENT FOR TWELVE MONTHS ENDING DECEMBER 31, 1899.

Dr.		Cr.	
January, drawn from City Comptroller...	$33,346 15	January, expenditures.....	$33,346 15
February, " " " " ...	32,482 03	February, "	32,482 03
March, " " " " ...	33,986 30	March, "	33,986 30
April, " " " " ...	32,826 30	April, "	32,826 30
May, " " " " ...	30,367 81	May, "	30,367 81
June, " " " " ...	31,235 43	June, "	31 245 43
July, " " " " ...	33,483 24	July, "	33,483 24
August, " " " " ...	38,657 49	August, "	38,657 49
September, " " " " ...	32,557 42	September, "	32,557 42
October, " " " " ...	34,036 68	October, "	34,036 68
November, " " " " ...	36,636 34	November, "	36,636 34
December, " " " " ...	37,639 95	December, "	37,639 95
	$407,255 14		$407,255 14

APPROPRIATIONS—Annex.

Amount appropriated by the Mayor and City Council out of general levy for 1899	$84,300 00	
Amount appropriated by the Mayor and City Council—special	6,000 00	
		$90,300 00
Amount drawn from Comptroller		88,332 27
Balance undrawn		$1,967 73

GENERAL STATEMENT.

Amount drawn from Comptroller account "General Appropriation"	$84,275 61	
Amount drawn from Comptroller account "Special Appropriation"	4,056 66	
		$88,332 27
Expenditures, account department		$88,332 27

EXPENDITURES—Annex—1899.

Salaries		$64,279 47
Apparatus	$6,905 00	
Apparatus Repairs	1,750 43	
Accident	477 09	
Feed	4,108 10	
Fuel	791 97	
Furniture	276 06	
Fire Alarm Telegraph	110 00	
Gas	366 74	
Harness	232 46	
Horses	650 00	
Horseshoeing	789 52	
Insurance of Members	460 00	
Miscellaneous	1,114 72	
Oils, Paints, Storeroom, etc	932 40	
Sick	438 40	
Telephone Rental	26 25	
Washing	567 00	
	$19,996 14	
Equipping No. 11 H. & L. Company	4,056 66	
		24,052 80
		$88,332 27

COMPANY EXPENDITURES—ANNEX, 1899.

No. 1 Chemical Company	$5,656 08	
" 2 " "	3,054 54	
" 3 " "	2,949 72	
" 4 " "	3,419 64	
" 5 " "	3,298 93	
" 6 " "	2,938 93	
" 7 " "	3,841 82	
" 18 Engine "	14,066 46	
" 20 " "	12,074 21	
" 21 " "	12,180 45	
" 7 Hook and Ladder Company	805 00	
" 8 " " " "	829 18	
" 9 " " " "	815 00	
" 11 " " " "	11,353 43	
Officer's salary and expenses	1,704 92	
Fire-Alarm Telegraph	136 25	
Reserve	3,960 00	
Storeroom	915 25	
Miscellaneous	275 80	
		$84,275 61
Equipping No. 11 Hook and Ladder Co		4,056 66
		$88,332 27

FINANCIAL STATEMENT OF THE FIRE DEPARTMENT, ANNEX, FOR TWELVE MONTHS, ENDING DECEMBER 31, 1899.

Dr.		Cr.	
January, drawn from City Comptroller	$6,753 14	January, Expenditures	$6,753 24
February, " " " "	7,113 92	February, "	7,113 92
March, " " " "	6,301 98	March, "	6,301 98
April, " " " "	6,771 61	April, "	6,771 61
May, " " " "	6,183 23	May, "	6,183 23
June, " " " "	6,665 36	June, "	6,665 36
July, " " " "	6,297 48	July, "	6,297 48
August, " " " "	6,572 80	August, "	6,572 80
September, " " " "	6,033 31	September, "	6,033 31
October, " " " "	6,373 00	October, "	6,373 00
November, " " " "	5,976 12	November, "	5,976 12
December, " " " "	17,090 22	December, "	17,090 22
	$88,332 27		$88,332 27

RECAPITULATION.

ACCOUNT.	Appropriation.	Expenditures.	Balance.
City Department	$407,400 00	$407,255 14	$144 86
Annex Department	84,300 00	84,275 61	24 39
Special, No. 11 Hook and Ladder Company	6,000 00	4,056 66	1,943 34
	$497,700 00	495,587 41	$2,112 59
Old material			700 60
			$2,813 19

REPORT

OF THE

CHIEF ENGINEER.

REPORT.

OFFICE OF THE CHIEF ENGINEER.

BALTIMORE, January 1, 1900.

To the Honorable Board of Fire Commissioners:

GENTLEMEN: I have the honor to submit herewith my fourth annual report, it being the forty-first annual report of the paid fire department.

FIRES.

The total number of alarms received from all sources during the year was 1,309, of which number 875 were box alarms and 434 verbal or silent alarms. Of the box alarms received as above noted 35 were false alarms, which number deducted from the total number of alarms places the number of actual fires attended by the department at 1,274. The number of actual fires attended by the Department during the year 1898 was 1,298, which, compared with the record for 1899, shows a decrease in the number of actual fires attended in favor of 1899 of but 25 fires, or about two per cent. The total loss for the year, approximating December losses, was $438,383.38, involving an insured value of $3,458,000 which, compared with the loss for 1898, shows a decrease of $422,531.39, or nearly fifty per cent.

This record should be extremely gratifying, as it is certainly made interesting, by reason of the fact that Baltimore is one of the few large cities of the country which was not visited by a serious conflagration during the year. That the results accomplished are due largely to the high standard of efficiency, set for and maintained by the Department, is attested by the fact that of the fires occurring during the year, there were but nine, the loss at which exceeded $5,000, and

the further fact that at but 27 fires was the adjoining property damaged, while in no instance did the fire extend beyond the adjoining property.

In this connection, an examination of the table of alarms and losses for the past 41 years, to be found on page 41 of this report, will prove most interesting by way of comparison.

Of the fires above noted, 1,081 were in brick, stone or iron buildings; 138 in wooden buildings, and 55 were fires other than building fires.

APPARATUS.

The apparatus of the Department is in the best possible condition, representing all that is best in modern fire-fighting machinery. A close and intelligent surveillance of the equipment is maintained at all times, and necessary repairs or suggested improvements, looking to increased efficiency, are made as expeditiously as possible. Taken as a whole, or severally, the apparatus of this Department will compare favorably with that of any other Department in the country, either in point of efficiency, general condition or appearance.

During the year, two engines, built in 1874 and 1877, respectively, which, in addition to requiring extensive repairs, were entirely inadequate to the service demanded of them, were condemned and sold.

There was added to the equipment of the Department during the year the following apparatus, viz:

One extra first size engine, built by the La France Fire Engine Co., which was placed in service with No. 2 Engine Co.; the engine formerly in service with that company being placed in reserve.

One first size Hayes Ærial Hook and Ladder Truck, built by the La France Fire Engine Co., which was placed in service with No. 2 Hook and Ladder Company. The truck formerly in service with No. 2 Hook and Ladder Company, which was built in 1881, and which had remained in service

continuously since that time, was placed out of service, pending the result of a survey, the object of which is to determine whether or not its condition will warrant the expense attendant upon rebuilding for reserve purposes.

One combination truck (combining truck, chemical engine and hose wagon) was built by C. T. Holloway & Co., of this city, for service with No. 1 Chemical Engine Company, dispensing with the services of the chemical engine and truck, which formed the equipment of No. 1 Chemical Engine Company and No. 8 Hook and Ladder Company, which will be placed in reserve.

The increased efficiency obtainable by combining these companies in this manner was fully set forth in my recommendation to the Board, made on September 25th, in regard to the purchase of this apparatus.

On April 27th a contract was awarded by the Board of Awards to Wallace Stebbins & Sons for rebuilding the boilers of the fire-boat "Cataract," in accordance with specifications furnished by this Department. The work of rebuilding was begun on June 19th and completed on November 4th. The specifications stipulated that at no time during the progress of the work comprehended therein was the boat to be placed out of commission, which stipulation was fully complied with by the contractors, the boat being at all times during the progress of the work in condition to render efficient service under one boiler.

The boilers are now equal to new, and the adoption of the plan for rebuilding, as recommended, resulted in a saving to the city of not less than $7,500, this being the difference between the approximate cost of new boilers and the contract price for rebuilding.

HORSES.

There are at present in service 186 horses. Of this number 169 are assigned to the several companies and 21 held in reserve for use in emergencies which are constantly arising, by reason

of sickness and accident. Thirty-seven horses were purchased during the year and 24 were condemned and 8 died. One hundred and sixty-eight cases of sickness and injury were treated at the hospital.

FIRE-HYDRANTS.

According to the report of the Water Department, there are available for service 2,240 fire-hydrants, an increase as compared with 1898 of 127 hydrants. We are still deficient in this regard, and it is to be hoped that the number of hydrants will be largely increased during the coming year.

The installation of a pipe-line system for fire purposes only, to be supplied by the fire-boat, a recommendation covering which will be found in my reports for 1897 and 1898, should be begun as soon as possible. The adoption of this recommendation would materially increase the efficiency of the Department, in that the powerful pumps of the fire-boat would be made available for service in protecting a large area of the business section of the city and permit the return to quarters of a number of engine companies, whose services at present are indispensable in the event of a large fire, thus increasing the protection to life and property, at present afforded by the few engine companies left in reserve after a third or general alarm.

APPARATUS IN SERVICE.

Twenty-one steam fire-engines, 5 chemical engines, 8 Hayes' aerial trucks, 2 combination trucks, 1 bank ladder truck, 21 combination wagons, 18 hose carriages, 1 fire-boat, 1 water-tower, 7 Concord wagons (used by officers), 1 wagon for use of Superintendent of Machinery, 1 supply wagon, 3 wagons for use of linemen, 1 large wagon for use of Fire-Alarm Telegraph Department, and three carriages for use of Commissioners and Superintendent of Police and Fire Alarm Telegraph.

APPARATUS IN RESERVE.

Five steam fire-engines, 3 Hayes' aerial trucks, 1 water-tower, 1 bank ladder truck, 1 combination wagon, 4 Concord wagons, 3 chemical engines, 3 hose carriages, 1 dayton wagon, and one truck for moving disabled apparatus.

DEATHS.

William R. Ward, aged 55 years, a pensioned member of the Department, (formerly Captain of No. 2 Engine Company,) died on April 6th of Brights disease.

Owen D. Burgess, aged 60 years, a pensioned member of the Department, (formerly a callman of No. 8 Engine Company,) died on November 15th of heart failure.

Captain Thomas D. O'Keefe, No. 6 Hook and Ladder Company, died at the City Hospital on June 21st from the effects of an operation for hernia.

Captain O'Keefe sustained a hernia while drilling in front of quarters on May 26th, and was relieved from duty, at his own request, on June 14th, for the purpose of undergoing the operation which resulted in his death as above noted. Captain O'Keefe was 33 years of age, and had been a member of the Department for 11 years. In his death the Department suffered the loss of an officer whose unswerving devotion to its best interests was unquestioned, and whose faithful, conscientious and intelligent performance of every duty incumbent upon him as an officer and a fireman is worthy of emulation.

RECOMMENDATIONS.

In my report for 1898 a number of recommendations were submitted for your consideration, and were by you approved. As none of these measures were rendered effective by the necessary legislative enactment, and as the necessity for their adoption has in no wise diminished, but on the contrary has increased, I beg to again call them to your attention as follows, viz.:

An engine company to be placed in service in the vicinity of Caroline and Lancaster streets.

An engine company to be placed in service in the vicinity of Chesapeake and Hudson streets.

An engine company to be placed in service in the vicinity of Pratt and Carey streets.

An engine company to be placed in service in the vicinity of York Road and Gorsuch avenue, Waverly. The abolishment of No. 4 Chemical Engine Company and the transfer of the members of this company to No. 7 Hook and Ladder Company.

The addition of one member to each of the following companies, viz.: Engine Companies Nos. 1, 3, 5, 7, 8, 9, 10, 11, 12, 13, 14; Hook and Ladder Companies No. 1 and No. 2, Chemical Engine Companies Nos. 1, 2, 3, 5, 6, and three members to No. 8 Hook and Ladder Company.

The erection in all of the public schools of a fire-alarm box to be connected with the fire-alarm telegraph system.

The compulsory provision of portable fire-escapes in each room of all hotels, boarding houses and lodging houses, or buildings similarly occupied, to be designated by this Department.

The passage of an ordinance that will prevent the overcrowding of theatres, concert halls and other places of public gathering; and will compel the erection by the owner or owners of all buildings of this description, of a fire-alarm box therein, at a point designated by this Department, and the installation of such fire extinguishing appliances as this Department may direct, to be under the supervision and control of the Department during the time audiences are assembled.

The object of and necessity for the last two recommendations should be patent to everyone, and as no appropriation of the city's funds is necessary to render them effective, I sincerely trust they may receive favorable consideration at the hands of the legislative bodies of the city government.

In my last report your special attention was called to the desirability of providing permanent quarters for No. 11 Hook and Ladder Company, which company is quartered with No. 18

Engine Company. The conditions referred to at that time still obtain, and I urgently request that some steps be taken toward carrying into effect the provisions of the ordinance of the Mayor and City Council, approved April 5th, 1898, which ordinance provided for the erection on North avenue, near the west approach to North-avenue bridge, of a suitable building for this company.

The purchase of an additional fire-boat of greater capacity than the boat at present in service, to be equipped with a full complement of officers and men, and organized as an engine company of the Department. (This recommendation was included in my report for 1897, but was inadvertently omitted from the report for 1898.)

The desirability of establishing a School of Instruction for Firemen is a matter which I desire to submit at this time for your consideration and approval.

Under the present system of appointment, members are required to serve in the grade of probationary fireman before being appointed to the grade of fireman or ladderman. The time of service in the grade of probationer depends upon the number of vacancies created in the several grades above, during which period of probation, theoretical instruction is given by the company officers in the use of and method of application of the various apparati of the Department. The practical application of such methods depends, however, upon the number of fires which occur, requiring the services of the various appliances forming the equipment of the Department, from which statement of facts, it is obvious that the proper degree of proficiency in the handling of the equipment of the Department by its members is not attained as quickly as efficient service would seem to demand.

The establishment of such a school as is here proposed, would afford the requisite amount of practice in the theories taught, and would result in an increased efficiency of the Department, in that a more intimate and practical knowledge of the equipment in general would be more quickly and

thoroughly acquired by the personnel of the Department, and a greater degree of skill attained in the use of life-saving appliances.

Respectfully submitted herewith for your information are tables of statistics, setting forth in detail the work performed by the several companies, causes of fires, record of fires and alarms, roster of the Department, casualties, etc.

In concluding, I deem it but proper to express my extreme gratification at the recent enactment of an ordinance governing future appointments to and promotions in this Department, known as the merit-system law. That this law will prove highly beneficial in its effects is sufficiently apparent to preclude the possibility of discussion.

My thanks are due and are herewith tendered the Board for courtesies extended, and to the officers and members of the uniformed force for the faithful, intelligent and efficient manner in which they have discharged the duties incumbent upon them.

The continued co-operation of the officers and members of the Salvage Corps in the work of the Department deserves my highest commendation, which is herewith tendered, together with thanks for statistical information furnished relative to losses and insurance.

To the Police Department thanks are tendered for assistance rendered on fire ground, by preventing the congregation within the fire lines of unauthorized persons.

Respectfully submitted,

WILLIAM C. MCAFEE,
Chief Engineer.

COMPARATIVE FIRE DEPARTMENT STATISTICS.

CITY.	Area sq. miles.	Population.	Engine Companies.	Hook and Ladder Companies.	Chemical Engine Companies.	Combination Chemical Engine and Hose Wagon.	Water Towers.	Fire Boats.	Members.	Fire Plugs.	Fire-cisterns.	Fire-alarm Boxes.	Status as to Population.	Status as to Fire Department.
New York	.....	3,204,360	131	39	39	.....	4	6	2,212	19,000	.....	2,150	1	1
Chicago	187¼	1,851,588	84	27	27	.....	2	4	1,113	18,433	100	1,297	2	2
Philadelphia	129⅛	1,500,000	46	9	5	32	1	1	736	11,600	.....	982	3	4
St. Louis	62	635,000	38	12	1	.....	2	.....	501	6,200	.....	929	4	5
Baltimore	32½	505,000	20	11	6	21	1	1	397	2,240	.....	419	5	10
Boston	37	500,000	43	17	12	3	2	2	850	7,000	200	610	6	3
Buffalo	42	400,000	26	9	6	.....	1	2	450	4,000	15	435	7	7
Cleveland	32	380,000	26	9	3	.....	1	2	390	6,000	40	355	8	8
San Francisco	42	375,000	34	7	6	1	.....	.....	568	3,528	26	267	9	6
Cincinnati	37½	372,000	28	13	.....	.....	1	.....	340	2,554	303	445	10	12
Detroit	30	300,000	22	10	3	.....	1	1	388	3,397	587	426	11	9
New Orleans	46	300,000	27	7	12	.....	1	.....	302	1,757	211	367	12	14
Pittsburg	28½	294,000	28	8	2	.....	.....	.....	371	2,284	.....	466	13	11
Milwaukee	23	285,000	20	8	8	.....	1	3	336	2,350	158	358	14	13
Washington	73	280,000	14	4	2	.....	.....	.....	217	1,832	3	271	15	17
Louisville	22	220,000	17	5	.....	.....	.....	.....	189	161	680	277	16	15
Columbus	16¼	140,000	13	5	1	.....	1	.....	154	1,300	51	138	17	16

DESCRIPTION OF ENGINES.

Engines.	Built by	When Built.	Rebuilt by	When Rebuilt	Size.	Cylinders-Diam.	Cylinders-Stroke.	Pumps-Diam.	Pumps-Stroke.	Boilers-Diam.	Boilers-Height	Gallons Per Minute	Weight as Drawn to Fires.	Style of Engine.
No. 1	La France Co	1898			x 1st	8½	9	5¼	9	36	66	1,000	10,400	Vertical, crane-neck, piston double.
" 2	La France Co	1899			x 1st	8½	9	5¼	9	36	66	1,000	10,400	" " " "
" 3	Ives & Bro	1874	La France Co.	1892	x 1st	8½	10	5	10	38	64	1,000	10,760	" " " "
" 4	La France Co	1892			1st	8¼	9	5	9	36	60	900	9,600	" " " "
" 5	La France Co	1891			3d	7⅜	8	4¼	8	30	60	600	7,120	" " " "
" 6	La France Co	1890			2d	8¼	8	4¾	8	32	60	700	8,500	" " " "
" 7	La France Co	1898			2d	8	9	4⅝	9	33	62	700	8,000	" " " "
" 8	La France Co	1888			3d	8⅛	6	4¾	6	30	60	600	7,100	" " " "
" 9	La France Co	1886	La France Co.	1898	3d	7¾	8	4⅜	8	30	65	650	7,500	" " " "
" 10	Clapp & Jones	1886	La France Co.	1897	2d	7½	7	4¾	7	32	60	700	7,180	" " " "
" 11	La France Co	1889			2d	8¾	8	4¾	8	34	60	750	8,400	" " " "
" 12	La France Co	1894			2d	8¼	8	4¾	8	33	62	750	8,660	" " " "
" 13	La France Co	1893			2d	8¼	8	4¾	8	33	62	750	8,200	" " " "
" 14	Clapp & Jones	1888			3d	7	7	4⅜	7	32	60	600	6,990	" " " "
" 15	Clapp & Jones	1891			x 1st	9¾	8	5¾	8	38	62	1,000	9,460	" " " "
*" 16	Hull—Brusstar Bros. Pump—Thos. Manning Engine—E. J. Codd Co.	1891	J.E. Woodall & Co.	1897		16	10	9	10			4,400		Double vertical pumps.
" 17	La France Co	1895			2d	8¼	8	4¾	8	33	62	750	8,700	Vertical, crane-neck, piston double.
" 18	La France Co	1893			3d	7⅜	8	4¼	8	32	60	600	7,000	" " " "
" 19	La France Co	1895			3d	7⅜	8	4¼	8	32	60	600	7,100	" " " "
" 20	La France Co	1897			3d	7½	8	4¼	8	30	60	650	8,950	" " " "
" 21	Clapp & Jones	1885			3d	6¼	7	3¾	7	32	60	500	6,700	Horizontal, half crane-neck, piston, double.

* Fireboat,

DESCRIPTION OF ENGINES—Continued.

Engines.	Built by	When Built.	Rebuilt by	When Rebuilt.	Size.	Cylinder. Diam.	Cylinder. Stroke.	Pumps. Diam.	Pumps. Stroke.	Boilers. Diam.	Boilers. Height	Gallons per Minute	Weight as Drawn to Fires.	Style of Engine.
† A	Ives Bros	1872	La France Co.	1885	3d	10	12	5¼	12	34	62	500	7,800	Single horizontal, straight frame.
† B	Poole & Hunt	1860	Clapp & Jones	1884	3d	10	12	5	12	32	60	400	7,500	Single vertical, " "
† C	Ives Bros	1876			3d	10	12	5	12	30	62	400	7,500	Single horizontal, " "
† D	La France Co	1889			1st	8¾	8	5	8	33	60	900	9,600	Vertical, crane-neck, piston double.
† E	Silsby Manf'g Co	1887			3d	Rotary Pump.				34	60	600	6,700	Rotary, crane neck.
† F	Ives Bros	1875	La France Co.	1883	1st	8	10	4¾	10	38	62	900	9,400	Double vertical, crane-neck, piston.

† Reserve.

HOSE.

Companies.	Fabric Hose Received.	Fabric Hose Required.	Fabric Hose in Service.	Fabric Hose Condemned.	Gum Hose in Service.	Gum Hose Condemned.	Chemical Hose Received.	Chemical Hose Required.	Chemical Hose in Service.	Chemical Hose Condemned.
	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.
No. 1 Engine Co.....	1,000	500	3,750	300	50	.....	50	50	250	.....
" 2 " "	1,000	500	3,700	500	.....	.....	50	50	250	.....
" 3 " "	1,000	.....	3,200	150	.....	.....	100	.....	250	50
" 4 " "	1,200	400	3,400	150	.....	.....	50	.....	250	.....
" 5 " "	50	250	2,750	250	.....	.....	50	.....	250	....
" 6 " "	1,000	500	3,350	150	.....	.....	50	50	250	.....
" 7 " "	500	500	3,900	300	.....	.....	50	100	250	.....
" 8 " "	.....	.....	3,800	150	.....	.....	50	50	250	.....
" 9 " "	.....	300	3,200	.....	.....	.....	50	.....	250	.....
" 10 " "	.....	.....	3,800	100	.....	.....	50	50	250	....
" 11 " "	300	500	2,550	550	300	350	50	.....	250	.....
" 12 " "	1,000	1,000	2,550	50	750	1,150	50	50	250	.....
" 13 " "	500	300	3,800	100	.....	.....	50	50	250	.....
" 14 " "	400	500	3,600	100	.....	.....	50	50	250	.....
" 15 " "	1,000	500	3,600	250	.....	.....	100	50	500	.....
" 16 " "	.....	.....	1,500	.....	300	.....	.....	.....	300	.....
" 17 " "	.....	500	1,300	.....	2,650	150	50	.....	250	.....
" 18 " "	.....	.....	3,750	.....	.....	.....	100	.....	300	.....
" 19 " "	.....	.....	3,450	.....	.....	.....	50	.....	250	.....
" 20 " "	.....	.....	2,950	.....	.....	.....	50	.....	250	.....
" 21 " "	.....	500	2,900	.....	.....	.....	50	.....	300	.....

HOSE.

Chemical Companies.	New Hose Received.	New Hose Required.	Hose in Service.	Hose Condemned.
	Feet.	Feet.	Feet.	Feet.
No. 1 Chemical Engine Company	.....	.....	300	.....
No. 2 " " "	.....	.....	250	.....
No. 3 " " "	.....	50	400	50
No. 4 " " "	.....	.....	400	.....
No. 5 " " "	.....	100	250	50
No. 6 " " "	.....	.....	300	.....
No. 7 " " "	.....	.....	250	.....

MANUAL FORCE OF THE DEPARTMENT.

OFFICERS.

Chief Engineer	1	
District Engineers	6	
Superintendent of Machinery	1	
Assistant Superintendent of Machinery	1	
		9

ENGINE COMPANIES.

No. 1 Engine Company	11	
" 2 " "	12	
" 3 " "	11	
" 4 " "	12	
" 5 " "	11	
" 6 " "	12	
" 7 " "	11	
" 8 " "	11	
" 9 " "	11	
" 10 " "	11	
" 11 " "	11	
" 12 " "	11	
" 13 " "	11	
" 14 " "	11	
" 15 " "	20	
" 16 " "	12	
" 17 " "	12	
" 18 " "	12	
" 19 " "	12	
" 20 " "	12	
" 21 " "	12	
		249

CHEMICAL ENGINE COMPANIES.

No. 1 Chemical Engine Company	3	
" 2 " " "	3	
" 3 " " "	3	
" 4 " " "	3	
" 5 " " "	3	
" 6 " " "	3	
" 7 " " "	4	
		22

HOOK AND LADDER COMPANIES.

No. 1 Hook and Ladder Company	11	
" 2 " " "	11	
" 3 " " "	12	
" 4 " " "	12	
" 5 " " "	12	
" 6 " " "	12	
" 7 " " "	1	
" 8 " " "	1	
" 9 " " "	1	
" 10 " " "	12	
" 11 " " "	12	
		97
Probationary firemen		20
Total active membership of the department		397
Disabled members pensioned		25
Total membership		422

PENSION ROLL.

Name.	*Position at Time of Retirement.*	*Amount of Annual Pension.*
D. H. Macauley	Captain	$550 00
J. F. Peerce	Hostler	450 00
W. G. Miller	Captain	400 00
J. R. Battee	Callman	400 00
G. H. Little	Pipeman	400 00
John Wernsing	Hostler	400 00
William Gordon	Callman	400 00
G. W. Ellender	District Engineer	400 00
W. M. Dunn	District Engineer	400 00
H. E. Curry	Ladderman	400 00
J. J. McGraw	Pipeman	400 00
J. T. Elliott	Ladderman	400 00
J. H. Gildea	Callman	400 00
W. R. LaShorn	Pipeman	400 00
J. O. Healey	Pipeman	400 00
L. Pistel	Callman	400 00
J. H. Hayward	Captain	400 00
R. M. Brown	Ladderman	400 00
J. W. Blake	Tillerman	400 00
Jacob Hindes	Captain	400 00
B. T. Wirts	Callman	400 00
T. S. Rodenhi	Callman	400 00
T. H. Humphreys	Engineman	400 00
Solomon Uhlfelder	Pipeman	400 00
Charles A. Soistman	Pipeman	400 00

SALARIES OF OFFICERS AND MEMBERS.

		Per Annum.
1	Chief of Department	$2,000 00
6	District Engineers, each	1,400 00
1	Superintendent of Machinery	1,400 00
1	Assistant Superintendent of Machinery	1,200 00
29	Captains of engine and hook and ladder companies, each	1,100 00
30	Lieutenants of engine and hook and ladder companies, each	1,000 00
21	Enginemen, each	1,100 00
23	Assistant enginemen, each	900 00
16	Tillermen of hook and ladder companies, each	900 00
28	Hostlers of engine and hook and ladder companies, each.	900 00
7	Captains of chemical engine companies, each	900 00
10	Hostlers of chemical engine and Annex hook and ladder companies, each	800 00
145	Pipemen, each	800 00
54	Laddermen, each	800 00
2	Pilots on fire-boat, each	1,000 00
3	Stokers on fire-boat, each	800 00
20	Probationary firemen, each	500 00
397	Officers and members.	

NUMBER OF BOXES TO WHICH COMPANIES RESPOND.

Companies.	First Alarm.	Second Alarm.	Third Alarm.	Total.
No. 1 Engine Company	60	177	68	305
" 2 " "	83	66	95	244
" 3 " "	68	96	44	208
" 4 " "	109	121	99	329
" 5 " "	73	33	53	159
" 6 " "	70	122	61	253
" 7 " "	83	129	87	299
" 8 " "	90	81	71	242
" 9 " "	106	38	16	160
" 10 " "	67	78	81	226
" 11 " "	51	31	13	95
" 12 " "	37	22	28	87
" 13 " "	76	60	52	188
" 14 " "	64	21	18	103
" 15 " "	122	133	70	325
" 16 " "	47	8	.....	55
" 17 " "	22	11	22	55
" 18 " "	62	28	28	118
" 19 " "	45	33	13	91
" 20 " "	22	13	19	54
" 21 " "	12	1	.....	13
Water Tower	32	69	1	102
No. 1 Hook and Ladder Company	61	79	48	188
" 2 " " " "	69	111	53	233
" 3 " " " "	79	33	18	130
" 4 " " " "	52	114	81	247
" 5 " " " "	100	7	5	112
" 6 " " " "	57	34	2	93
" 7 " " " "	16	.....	.....	16
" 8 " " " "	23	4	.....	27
" 9 " " " "	12	.....	.....	12
" 10 " " " "	56	33	18	107
" 11 " " " "	31	9	.....	40
No. 1 Chemical Engine Company	25	14	.....	39
" 2 " " "	38	42	.....	80
" 3 " " "	15	.....	.....	15
" 4 " " "	25	13	.....	38
" 5 " " "	25	13	.....	38
" 6 " " "	26	17	.....	43
" 7 " " "	12	.....	.....	12

Engine Companies.	Responded.	Transferred.	Feet of hose laid.	Tanks used.	Extinguishers used.	Working time of steamers.		Time away from quarters.	
						Hours.	Min.	Hours.	Min.
No. 1 Engine Company	193	.....	15,550	53	.....	44	20	128	20
" 2 " "	201	.....	35,550	54	10	92	30	251	.....
" 3 " "	178	.....	16,350	60	.....	40	10	123	45
" 4 " "	188	.....	49,850	46	.....	56	35	137	50
" 5 " "	175	12	11,350	32	.....	28	20	124	40
" 6 " "	197	3	18,400	65	5	39	30	106	15
" 7 " "	184	.....	33,450	58	4	27	53	121	37
" 8 " "	229	7	9,300	64	.....	20	.....	115	.....
" 9 " "	256	11	11,800	64	1	15	50	191	10
" 10 " "	139	.....	13,900	59	.....	38	30	173	45
" 11 " "	136	20	5,150	19	.....	18	55	102	25
" 12 " "	95	19	12,200	15	.....	34	30	97	.....
" 13 " "	177	8	14,650	63	.....	38	55	147	15
" 14 " "	120	.....	11,000	34	6	19	5	94	15
" 15 " "	183	.....	28,000	58	.....	74	46	155	13
" 15 " " (2d section)	28	.....	.....	1	.....	.....	.....	1	17
" 16 " " (fire-boat)	81	.....	6,900	.....	.....	21	10	60	15
" 17 " "	45	26	9,100	15	8	20	.....	140	45
" 18 " "	103	11	10,300	12	.....	25	20	140	10
" 19 " "	80	11	9,100	26	3	23	15	71	55
" 20 " "	29	4	8,050	24	3	11	30	60	50
" 21 " "	26	1	5,750	3	.....	25	30	58	.....
Water Tower	28	.....	.....	.....	.....	.....	.....	.....	.....

SERVICE OF COMPANIES AT FIRES.

Hook and Ladder Companies.	Responded to.	Transferred.	Extinguishers Used.	Ladders Used.	Working time. Hours.	Working time. Min.
No. 1 Hook and Ladder Company..	137	18	23	168	231	28
" 2 " " " " ..	166	12	14	220	152	25
" 3 " " " " ..	195	10	41	164	118	15
" 4 " " " " ..	122	37	36	101	175	.....
" 5 " " " " ..	126	27	59	153	155	6
" 6 " " " " ..	154	6	82	190	131	15
" 7 " " " " ..	30	.....	12	25	25	7
" 8 " " " " ..	28	.....	10	24	27	25
" 9 " " " " ..	23	.....	4	14	31	.....
" 10 " " " " ..	92	41	36	137	169	49
" 11 " " " " ..	68	8	26	68	145	20

Chemical Engines.	Responded to.	Transferred.	Tanks Used.	Time away from quarters. Hours.	Time away from quarters. Min.
No. 1 Chemical Engine Company.....	25	.....	15	30	.....
" 2 " " "	84	1	34	86	25
" 3 " " "	17	.....	10	20	30
" 4 " " "	41	.....	14	27	37
" 5 " " "	20	.....	19	26	32
" 6 " " "	32	.....	18	37	30
" 7 " " "	23	.....	6	31	.....

SECOND, THIRD AND GENERAL ALARMS OF FIRE DURING 1899.

Box.	Location.	Date.	Alarm.	Alarm.	Alarm.
291	Huntingdon avenue and York road	January 26	Second		
422	Howard and Fayette streets	February 11		Third	
13	Pratt Street Bridge	February 16	Second		
347	Calvert and Eager streets	February 19	Second		
121	Exchange Place and Commerce street	March 9		Third	
18	Boston and Chesapeake streets	March 22			General
417	Portland and Greene streets	April 21	Second		
523	Eutaw and Conway streets	April 25	Second		
226	Orleans and Forrest streets	April 27	Second		
712	Cedar avenue and Old Tyson Mill road	May 11	Second		
621	Cross and Covington streets	May 11		Third	
379	Crown Cork and Seal Works	May 18	Second		
621	Cross and Covington streets	June 19		Third	
612	Montgomery and William streets	July 1	Second		
313	Charles and Franklin streets	July 3			General
313	Charles and Franklin streets	July 30			General
6	Calvert and Lombard streets	September 3	Second		
515	No. 15 Engine House, Lombard street	November 20	Second		
322	No. 7 Engine House, Eutaw street	December 4	Second		

TABLE SHOWING THE NUMBER OF FIRES FOR EACH DAY OF THE WEEK IN 1899.

Day.	*Number of Fires.*
Sunday	171
Monday	188
Tuesday	215
Wednesday	175
Thursday	192
Friday	190
Saturday	178
	1,309

TABLE SHOWING THE NUMBER OF FIRES FOR THE HOURS OF THE DAY DURING 1899.

A. M.		P. M.	
Between		Between	
12 and 1 o'clock	38	12 and 1 o'clock	59
1 " 2 "	33	1 " 2 "	61
2 " 3 "	27	2 " 3 "	53
3 " 4 "	23	3 " 4 "	53
4 " 5 "	16	4 " 5 "	70
5 " 6 "	28	5 " 6 "	85
6 " 7 "	30	6 " 7 "	75
7 " 8 "	32	7 " 8 "	99
8 " 9 "	35	8 " 9 "	104
9 " 10 "	56	9 " 10 "	86
10 " 11 "	68	10 " 11 "	61
11 " 12 "	70	11 " 12 "	47
	456		853

SUMMARY OF FIRES FOR 1899.

	District 1.	District 2.	District 3.	District 4.	District 5.	District 6.	Total Box.	Silents.	City.	Annex.	Total.
January	12	14	10	28	15	8	87	40	113	14	127
February	9	10	10	23	14	10	76	61	123	14	137
March	10	18	6	13	9	7	63	29	88	4	92
April	12	17	10	19	15	8	81	44	111	14	125
May	16	17	5	16	9	3	66	35	95	6	101
June	12	10	4	17	6	14	63	25	79	9	88
July	14	12	14	14	19	8	81	39	105	15	120
August	13	25	10	9	6	10	73	30	95	8	103
September	17	17	10	11	9	6	70	28	86	12	98
October	11	16	5	19	8	17	76	21	89	8	97
November	10	9	11	11	14	9	64	31	83	12	95
December	16	13	13	13	10	10	75	51	107	19	126
	152	178	108	193	134	110	875	434	1,174	135	1,309

NUMBER OF FIRES AND LOSSES EACH YEAR SINCE THE ORGANIZATION OF THE PAID FIRE DEPARTMENT.

Year.	*Number of Fires.*	*Losses.*
1859	98	$350,000 00
1860	112	310,000 00
1861	115	60,000 00
1862	130	83,000 00
1863	138	120,182 33
1864	143	163,528 49
1865	163	71,358 90
1866	178	181,115 00
1867	193	293,045 00
1868	145	76,244 75
1869	187	398,259 09
1870	203	432,717 07
1871	226	475,391 00
1872	245	300,000 00
1873	265	892,628 58
1874	384	506,826 15
1875	348	608,351 30
1876	332	563,248 78
1877	420	438,715 57
1878	371	162,312 78
1879	306	192,654 54
1880	343	580,290 09
1881	324	454,773 35
1882	358	330,113 84
1883	399	561,520 00
1884	388	617,871 79
1885	474	441,443 06
1886	430	896,527 12
1887	496	1,162,359 26
1888	602	1,272,478 82
1889	545	477,329 07
1890	594	441,152 65
1891	676	650,009 73
1892	795	839,435 77
1893	829	1,153,129 76
1894	831	542,188 29
1895	816	730,751 11
1896	985	423,062 79
1897	1,110	572,497 39
1898	1,373	861,114 77
1899	1,309 (Approximating December loss)	438,583 38
The total loss by fires in 41 years has been		$20,126,810 47

TABLE SHOWING THE DIFFERENT CAUSES OF FIRES AND ALARMS.

Accidental	4
Altar ignited by lighted candle	1
Awning ignited by lighted match	1
Back draft	11
Badly constructed fire-place	1
Badly constructed hearth	3
Bake oven falling in	1
Bark overturned by storm	1
Bagging ignited by lighted lamp	1
Bed clothing ignited by cigarette	1
Bed clothing ignited by lighted lamp	1
Blowing off steam	1
Blowing out of boiler tube	1
Blowing open safe with gunpowder	1
Box of matches ignited by sun	1
Box pulled for preceding fire	5
Boy falling with lighted lamp	1
Boys playing with fire	1
Burning chimney	62
Burning grease on gasoline stove	1
Burning blanket thrown on roof	1
Burning of gasoline	1
Burning rags in chimney	1
Burning sulphur	1
Burning pot of meat	1
Burning waste paper	1
Burning old shoe in store	1
Burning soot	1
Burning rubbish	2
Burning rags to drive out mosquitos	1
Burning out of electric controller	1
Bursting of steam pipe	1
Can of gasoline ignited by fire	1
Carelessness	2
Careless handling of matches	18
Careless use of coal oil	1
Carelessness with gasoline	4
Child playing with lighted candle	1
Children playing with matches	33
Children playing with fire	6
Cleaning kid gloves with gasoline	1
Clothing ignited by oil stove	2
Clothing ignited by lighted candle	1
Clothing ignited by stove	3
Clothing ignited by gas stove	1
Clothing ignited by coal-oil lamp	1
Coal-oil heater ignited carpet	1
Coal-oil stove taking fire	1
Coal oil spilled on stove	1
Coal-oil lamp thrown in a fight	1

Coals from stove	1
Curtain ignited by lighted gas jet	14
Curtain ignited by heat of lamp	1
Curtain ignited by cigarette	1
Curtain ignited by lighted candle	1
Curtain ignited by gasoline stove	1
Defective chimney	1
Defective flue	50
Defective fireplace	1
Defective hot-air pipe	2
Defective construction of hearth	2
Defective insulation of electric wire	1
Defective oil stove	5
Defective register	4
Dropping coal oil lamp	1
Dropping lighted match	1
Drugs ignited by alcohol lamp	1
Dust from window ignited by gas jet	1
Electric converter	2
Electric motor	1
Electric spark	1
Escaping gas	2
Explosion of a can of benzine	2
Explosion of a barrel of varnish	1
Explosion of a bottle of gasoline	1
Explosion of coal-oil stove	37
Explosion of coal-oil lamp	39
Explosion of a can of gasoline	2
Explosion of a furnace	1
Explosion of gas	5
Explosion of gas meter	1
Explosion of gasoline stove	88
Explosion of gasoline	3
Explosion of can of gasoline	2
Explosion of gasoline lamp	3
Explosion of steam pipe	1
Explosion of gasoline tank	2
Explosion of barrel of whiskey	1
Explosion of water back	6
Exploded lamp thrown out of window	1
Electric wire setting fire to woodwork	33
False alarms	35
Filling lighted lamp	1
Filling stove while lighted	7
Fire from cupola	1
Fireworks	21
Flames from gasoline stove	5
Gas lamp ignited by alcohol	1
Gasoline ignited by firecracker	1
Gasoline ignited by heat of stove	3
Gasoline ignited by lighted match	2
Gas ignited by lighted match	1
Goods ignited by lighted gas jet	4
Grease ignited by lighted torch	1

Grease boiling over	1
Grease ignited by lighted candle	1
Heat from chimney	1
Heat from register	1
Heat from steam pipe	1
Heat from lamp	2
Heat from stove	10
Heat from smelting furnace	1
Hot ashes	4
Hot coals	1
House filled with smoke	6
Leaking gasoline stove	23
Leaking gasoline tank	1
Leaking steam valve causing alarm of fire	1
Lighted candle igniting mosquito net	1
Lighted candle igniting clothing	1
Lighted candle igniting curtain	1
Lighted candle igniting portierres	1
Lighted coal-oil stove	1
Lighted candle igniting Christmas tree	2
Lighted candle igniting shavings	1
Lighted cigarette thrown on lounge	2
Lighted lamp thrown at a woman	1
Lighted gas jet igniting toys	1
Lighted gas jet igniting clothing	1
Lighted gas jet igniting drapery	1
Lighted gas jet igniting goods	1
Lighted gas jet igniting mosquito net	1
Lighted gas jet igniting palms	1
Lighted gas jet igniting woodwork	2
Lighted candle igniting gasoline	1
Lightning	4
Lighted lamp igniting lace	1
Lighted lamp igniting lounge	1
Lighted lamp igniting woodwork	1
Lighted match igniting bags	1
Lighted match igniting curtains	1
Lighted match thrown among clothing	2
Lighted match thrown on floor	5
Lighted match igniting lounge	2
Lighted match igniting a can of gasoline	1
Lighted match igniting portierres	1
Lighted match igniting gasoline tank	1
Lighted match thrown among paper	1
Lighted match igniting can of varnish	1
Lighted paper igniting a bottle of benzine	1
Lighted paper igniting curtain	1
Lighted pipe igniting lounge	1
Lighted torch igniting clothing	1
Maliciously set on fire	6
Mice gnawing matches	8
Misplaced stove damper	1
Oil ignited by lighted match	1
Open grate fire	2

Overheated coal oil stove	2
Overcharged coal oil stove	1
Overheated flue	1
Overheated gravel pan	1
Overheated kiln	1
Overheated oven	4
Overheated range	1
Overheated stove or furnace pipe	24
Overheated stove or furnace	34
Overflow of gasoline stove	7
Overflow of oil from stove	4
Overpressure of steam	1
Overflow of a pan of oil	1
Pan of lard boiling over	4
Paper ignited by gas stove	1
Pot of tar boiling over	1
Rain slaking lime	1
Reflection from open fire	1
Reflection from stove	1
Reflection from window	4
Roof ignited by burning broom	1
Rubbish set on fire	1
Set on fire by gasoline stove	1
Set on fire by boys	3
Set on fire by tramps	1
Shellac boiling over	1
Smoke from building	1
Smoke from chimney	3
Smoke from cellar	1
Smoke from coal-oil stove	3
Smoke from furnace	2
Smoke issuing from chair-board	1
Smoke blowing over roof	2
Smoke from stove pipe	1
Smoking stove	4
Smoke from window	1
Sparks from chimney	14
Sparks from boiler	3
Sparks from brush	2
Sparks from cigar	1
Sparks from cupola	2
Sparks from furnace	4
Sparks igniting gasoline	1
Sparks from fireplace	1
Sparks from gasoline stove	1
Sparks from locomotive	5
Sparks from match	3
Sparks from cotton picking machine	2
Sparks from oven	1
Sparks from stove pipe	2
Sparks from stove igniting gasoline	1
Sparks from smoke stack	1
Sparks from stove	4
Sparks from tobacco pipe	3

Sparks from telephone	1
Spontaneous combustion	24
Supposed fire under hearth	1
Supposed incendiary	3
Stepping on match	3
Thawing ice with fire	1
Thawing snow with burning coal oil	1
Thawing water pipe	1
Tinners fire pot igniting roof	3
Tinners fire pot igniting curtain	1
Turpentine and beeswax ignited by lighted candle	1
Unnecessary alarm	2
Unknown	332
Upsetting coal-oil stove	13
Upsetting coal-oil lamp	13
Upsetting gasoline lamp	1
Upsetting gasoline stove	5
Upsetting lighted candle	5
Upsetting pot of red fire	1
Upsetting lantern	1
Upsetting stove	3
Waste paper thrown on stove	1
Waste paper ignited by coal-oil stove	1
Wax boiling over	1
Wick of oil stove turned up too high	1
	1,328

FIRES THE LOSS AT WHICH EXCEEDED $5,000.

February 11th—Box 422.—A five-story brick building, No. 5 North Howard street, extending in L shape to Garrett street, occupied by J. H. Medairy & Co. as a book-binding and stationery establishment. The fire originated in the rear of the first floor from an unknown cause and, owing to the inflammable nature of the contents, and the further fact that the companies first arriving were delayed in getting in service by reason of frozen hydrants, spread rapidly through the entire building.

The first alarm was received at 6.29 P.M., the second alarm at 6.44 P.M., the third alarm at 7.10 P.M., and the recall signal at 9.54 A.M. February 12th. The services of twelve engine companies, three hook and ladder companies and the water-tower were required. Loss, $27,768.56.

March 9th—Box 121.—A four-story brick building, No. 413 Exchange Place, occupied by Rennous & Kleinle as a brush manufactory. The fire, which originated from an unknown cause, damaged the stock and interior wood-work and extended to and partly damaged the four-story brick building, Nos. 415-417 Exchange Place, occupied by Baxter, Bird & Co., dealers in tobacco.

The first alarm was received at 9.07 P.M., the second alarm at 9.12 P.M., the third alarm at 9.14 P.M., and the recall signal at 7.45 A.M. March 10th. The services of twelve engine companies, four hook and ladder companies and the water-tower were required. Loss, $113,277.42.

March 22nd—Box 18.—The fire originated from an unknown cause in the one-story brick building at the southwest corner of Boston and Patuxent streets, occupied by William Fait & Co., packers of canned goods, and extended to and partially damaged the three-story brick building immediately adjoining, occupied by the same firm.

The first alarm was received at 5.33 A.M., the four-two signal at 5.40 A.M., and the recall signal at 10.10 A.M. The services of eleven engine companies and four hook and ladder companies were required. Loss, $23,000.

May 11th—Box 712.—The fire originated in a box-car which was standing on the tracks of the Northern Central Railway Company, near Mt. Vernon Station, destroying same; extended to and partially damaged a one-story stone storage-house and contents of baled cotton, the property of the Mt. Vernon Company.

The first alarm was received at 12.28 A.M., the second alarm at 12.53 A.M., and the recall signal at 9.14 A.M. May 12th. The services of two engine companies, three hook and ladder companies and one chemical engine company were required. Cause of fire, incendiary. Loss, $9,936.62.

May 11th—Box 621.—A three-story brick building and frame-covered wharf adjoining, located at the foot of Cross street, occupied by the Coast Pigeon Manufacturing Company, manufacturers of clay targets. The fire originated in the three-story brick building from a leaking gasoline pipe, and completely destroyed the building and contents, together with the wharf adjoining.

The first alarm was received at 11.45 P.M., the second alarm at 11.51 P.M., the third alarm at 11.54 P.M., and the recall signal at 7.59 A.M. May 12th. The services of ten engine companies and three hook and ladder companies were required. Loss, $31,373.89.

June 19th—Box 621.—A three-story brick building located at the southwest corner of Cross and Covington streets, occupied by the American Label Company. The fire originated on the first floor from the explosion of a barrel of gasoline, and partially damaged the contents of the building, together with the interior wood-work.

The first alarm was received at 7.40 A.M., the second alarm at 7.47 A.M., the third alarm at 7.50 A.M., and the recall

signal at 11.11 A.M. The services of nine engine companies and two hook and ladder companies were required. Loss, $8,661.48.

July 30th—Box 313.—A five-story brick and mansard roof building located at the southwest corner of Charles and Center streets, known as the St. James Hotel, which was unoccupied at the time of the fire. The fire originated from an unknown cause at the base of the elevator shaft, and spread rapidly throughout the entire building, partially damaging the wood-work and roof and contents, which consisted of furniture, bedding, etc.

The first alarm was received at 1.44 A.M., the four-two signal at 1.47 A.M., and the recall signal at 11.01 A.M. The services of nine engine companies, four hook and ladder companies and two water towers were required. Loss, $30,506.67.

December 4th—Box 322.—A three-story brick and mansard roof building located on Ross street, between Howard and Eutaw streets, occupied by Johns Hopkins University as a chemical laboratory. The fire originated from an unknown cause, on the third floor, and partially damaged the interior wood-work, roof, furniture, stock of chemicals and books.

The first alarm was received at 6.17 A.M., the second alarm at 6.32 A.M., and the recall signal at 10.51 A.M. The services of seven engine companies and three hook and ladder companies were required. Loss—contents, $12,300; building, $9,459.20.

FIRES AT WHICH RESCUES WERE MADE.

February 13th—Box 158, 12.02 A.M.—Two story and attic brick dwelling. Two adults and one child, whose escape by the stairway had been cut off by smoke, were rescued from the second story windows by members of No. 3 Hook and Ladder Company, using the ladders of that company.

March 28th—Box 252, 12.07 A.M.—Three story brick, grocery store and dwelling, No. 1201 Greenmount avenue. Henry Bush, who was overcome by smoke was taken from

the third story front by means of the life line and a ladder; three children (Andrew, Emory and Charles Bush) were taken from room in rear of third story; and one adult, Mary Preston, from the second story by means of ladders, by the members of No. 5 Hook and Ladder Company.

May 5th—Box 285, 3.40 A.M.—Three story brick dwelling, No. 314 Harford avenue. Miss Amelia Digleman was rescued from the third story back room by the members of No. 5 Chemical Engine Company, by means of a one story frame structure in the rear of the premises.

September 10th—Box 431, 8.24 P.M.—Four story brick saloon and dwelling, No. 745 West Lombard street. Mr. and and Mrs. C. M. Geiger and Miss Grace Wallowen were rescued from room in rear of third floor by means of ladders, by members of No. 15 Engine Company.

October 21st—Box 514, 7.12 P.M.—Collapse of the three story brick dwellings No. 411 and 413 Dover street. Ten persons who were buried in the debris, and more or less injured thereby, were rescued by members of Hook and Ladder Companies Nos. 1, 2, 4 and 6.

FIRES WHICH WERE ATTENDED BY LOSS OF LIFE, 1899.

February 1st—Box 352, 2.45 P.M.—Miss Mamie Neall, No. 1322 Eutaw Place, was fatally burned about the body while endeavoring to extinguish a burning lace curtain which had been ignited from a gas jet.

February 10th—Box 328, 6.33 A.M.—Martha Berliski and Florence Reifsnider, children, inmates of the Home of the Friendless, Druid Hill and Lafayette avenues, were fatally burned and injured by the explosion of a water-back in the kitchen range.

May 11th—Box 621, 11.45 P.M.—Robert Hudson, a watchman, was fatally burned in the fire which destroyed the plant of the Coast Pigeon Manufacturing Company, located on the river front at the foot of Cross street.

May 11th—Box 712, 12.28 A.M.—Clarence Kepner was fatally burned while asleep in a box car which was destroyed by fire on the tracks of the Northern Central Railway Company, near Mt. Vernon Station.

June 7th—Silent, 3.00 A.M.—Miss Florence Morgan, No. 821 Raborg street, was fatally burned by her clothing taking fire from a lighted cigarette.

June 25th—Box 373, 8.52 P.M.—Lucy Bassett, a child, residing at No. 601 Sewall street, was fatally burned by an explosion of fire-works.

August 10th —Box 35, 11.45 P.M.—Mrs. E. H. Gale, No. 260 West Hoffman street, was fatally burned by her clothing becoming ignited from a burning mosquito net.

ober 22nd—Box 463, 4.35 P.M.—William Richardson, an infant, was fatally burned by the upsetting of a lighted coal-oil stove in the dwelling No. 34 South Parrish street.

November 1st—Box 141, 2.28 A.M.—William Conio, No. 825 Eastern avenue, was fatally burned by the upsetting of a lighted coal-oil lamp.

December 16th—Box 415, 6.50 A.M.—Michael Zinner, residing at No. 1160 Cleaveland street, was instantly killed while walking on Eutaw street, near Baltimore street, by being struck on the head by a falling brick which had become dislodged from the six-story building located at the southeast corner of Eutaw and Baltimore streets, by an explosion of gas in the chimney of said building.

December 23d—Box 56, 4.42 P. M.—Maggie Willis, an infant, residing at No. 1003 South Sharp street, was fatally burned by the overturning of a can of gasoline which became ignited from a stove.

Company.	Position.	Name.	Date of Injury.	Box.	Time Off Duty.	Nature of Injury.
	Dist. Eng'r..	Frederick Branan	April 11.....	296	.....	Scalp wound.
	" "	F. H. Lucas.....	March 22 ...	473	14½ days	Laceration of head, arm and leg.
No. 1 Engine	Engineman	J. H. Deal	February 12	422	8 days	Right arm scalded.
" 1 "	Substitute ..	E. B. McKnew....	February 19	In quarters	9½ days..	Right knee lacerated.
" 2 "	Pipeman.....	William Kimball.	Dec. 28, '98	61	.....	Right leg contused.
" 2 "	"	Charles E. Rice...	April 14	In quarters	20½ days	Contusion of finger on right hand.
" 3 "	"	J. T. Seabreeze ...	Sept. 25.....	In quarters	5 days.....	Contusion of right foot.
" 4 "	Captain	Lawrence Pistel..	February 16	13	39 days...	Scalp lacerated and general contusion of body and limbs.
" 4 "	Lieutenant .	John T. Owens....	February 16	13	10 5-6 d's.	Face burned and body contused.
" 4 "	Pipeman	Constant Siebert..	February 16	13	.....	Contusion of shoulder.
" 4 "	"	F. C. H. Berger...	February 16	13	.....	Contusion of shoulder.
" 4 "	"	Henry F. Boerner	February 16	13	1 5-6 days	Contusion of shoulder and leg.
" 4 "	"	Harry C. Grimes..	February 16	13	8 5-6 days	Scalp wound.
" 4 "	"	E. J. Kipp.....	February 16	13	7 5-6 days	Contusion of muscles of back.
" 4 "	"	Francis Heusman	February 16	13	22 5-6 d's.	Contusion of head and back.
" 4 "	"	Harry Curran.....	February 16	13	3 5-6 days	Contusion of body.
" 4 "	Substitute...	Sam'l Bersterman	February 3..	13	4 5-6 days	Contusion of ankle.
" 4 "	Hostler	I. D. Appleby.....	Sept. 3.....	6	3 2-3 days	Left leg lacerated.
" 6 "	Pipeman.....	Isaac Cuddy.....	June 8.....	252	11¾ days	Contusion of left knee.
" 6 "	"	J. T. Gordon.....	July 22		17⅜ days	Right arm and leg bruised.
" 7 "	"	C. H. Baker.....	February 11	422	14½ days	Exhausted from cold.
" 7 "	"	Samuel Seymour.	July 30	313	6 days.....	Left hand and wrist cut.
" 7 "	Substitute...	Plum'er Ratcliffe	February 11	422	1 day.....	Exhausted from cold.
" 8 "	Pipeman.....	G. B. Chapman...	May 13.....	43	12½ days	Right arm lacerated and body bruised.

No. 8 Engine	Pipeman	G. B. Chapman	June 20	373	½ day	Scalp wound.
" 9 "	Lieutenant	W. H. Perrine	February 12		2¾ days	Ankle sprained by falling on ice.
" 9 "	Probationer	G. W. Wanner	February 8	232	6¾ days	Wrist cut by falling glass.
" 10 "	Pipeman	John Watson	Sept. 27	In quarters		Right hand lacerated.
" 10 "	"	F. D. Dolan	February 11	In quarters	3 days	Contusion of right foot.
" 13 "	"	Albert Schyne	February 11	422	8 days	Left hand lacerated.
" 13 "	"	Louis Buehler	December 4	322	6 7-12 d's.	Head and hands burned.
" 13 "	Probationer	Andrew Lee	May 21	365	5 5-6 days	Left hand lacerated.
" 13 "	Substitute	J. C. Luckhardt	October 19	In quarters	13 1-6 d's.	Contusion of left foot.
" 14 "	Captain	J. F. Rupp	February 26	In quarters	11½ days	Finger lacerated.
" 14 "	Asst. Eng'r	C. P. Kuhan	August 27	357	8 days	Left knee sprained.
" 14 "	Pipeman	W. F. Musgrove	July 25	467	8¾ days	Left thigh bruised.
" 15 "	Asst. Eng'r.	E.R. McCullough	January 9		10 days	Cut over right eye.
" 15 "	Hostler	Mark Hill	October 10.	In quarters	5½ days	Contusion of right foot.
" 15 "	Pipeman	E. E. Harp	February 22	In quarters	25 5-6 d's.	Contusion of right foot.
" 15 "	"	Otto Liedtke	Sept. 25	In quarters		Toe lacerated.
" 15 "	Probationer	Joseph Rea	June 5	In quarters		Toe lacerated.
" 15 "	"	G. A. Walker	August 13	In quarters		Bitten on Back by a horse.
" 15 "	"	Plum'er Ratcliffe	August 23	In quarters		Contusion of thigh.
" 18 "	Hostler	John W. Potts	February 18	354	57¾ days	Left wrist sprained and abdomen bruised.
" 19 "	Pipeman	Harry F. Bodge	August 8	28	5 days	Muscles of back and knee sprained.
" 20 "	"	Hugh P. Fox	April 18	In quarters	24½ days	Contusion of scrotum.
" 21 "	Engineman	J. H. Hedrick	April 25	Off duty.	96 days	Fracture of left ankle bone.
No. 1 Hook & Ladder	Probationer	David Perlman	January 22	In quarters	9¾ days	Contusion of toe on right foot.
" 1 " "	Ass. Till'm'n	HarryA. Donahoo	February 16	13	5¾ days	Contusion of left eye.
" 2 " "	Ladderman	Geo. J. Hamilton	Dec. 22	5	4⅔ days	Right hand cut by falling glass.
" 3 " "	Lieutenant	Peter Nelson	July 16	In quarters	36½ days	Right hand lacerated.
" 3 " "	Ladderman	Alpha T. Stover	May 13	269	13½ days	Right ankle sprained.
" 4 " "	Ast. Till'm'n	George E. Gill	January 11	In quarters	19⅔ days	Contusion of back and left arm.
" 4 " "	Ladderman	Jas. H. Wentz	April 4	In quarters	8¾ days	Contusion of left thigh.
" 4 " "	"	F. D. Dolan	July 30	313	4½ days	Right hand cut by falling glass.
" 4 " "	Probationer	Jas. H. Wentz	February 11	422	5¾ days	Contusion of left arm.
" 5 " "	Ast. Till'm'n	Alex. McFaul	February 8.	Off duty.	3 days	Contusion of shoulder.

CASUALTIES—Concluded.

Company.	Position.	Name.	Date of Injury.	Box.	Time Off Duty.	Nature of Injury.
No. 5 Hook & Ladder	Ass. Till'm'n	Alex. McFaul.....	February 12	In quarters	32 days...	Pistol shot wounds in neck and head.
" 5 " "	Ladderman.	George Hanauer..	October 27..	At drill.	7 7-12 d's.	Right hand lacerated.
" 6 " "	Captain	Thos. D. O'Keefe	May 26.....	At drill.	Died.....	Hernia, an operation for the relief of which resulted fatally.
" 6 " "	Lieutenant .	George S. Koller.	February 16	13	10 7-12 d's	Contusion of left ankle.
" 6 " "	"	George S. Koller.	June 17.....	In quarters	2 days.....	Right ankle sprained.
" 6 " "	Hostler.....	Louis Matthaei...	April 27.....	In quarters	.....	Contusion of muscles of chest.
" 6 " "	Ass. Till'm'n	Amos G. Bramble	June 7.....	At drill.	.....	Contusion of left leg.
" 6 " "	Ladderman.	Charles F. Fay....	February 27	547	.....	Contusion and laceration of head.
" 6 " "	"	Henry Toepfer....	May 19.....	At drill	.....	Rupture of muscular fibres of back
" 6 " "	"	W. S. Fort	June 20	In quarters	.....	Muscles of back strained.
" 7 " "	Hostler.....	A. J. McCormick.	October 17..	In quarters	.....	Kicked on right knee by a horse.
" 10 " "	Lieutenant	H. C. Kabernagel	January 17..	381	6 days.....	Contusion of right side.
" 10 " "	Tillerman....	W. F. Beall.....	August 18..	In quarters	7 5-6 days	Right ankle sprained.
" 10 " "	Ladderman.	Jas. A. De Puey...	Dec. 18, '98.	458	11 days...	Contusion of right knee.
" 11 " "	"	C. E. Edwards.....	October 16..		8 days.....	Right ankle sprained by falling from a horse.
No. 1 Chemical.....	Probationer	Geo. H. Mills.....	January 10..		4⅔ days..	Contusion of left knee.
" 2 "	Pipeman.....	J. M. Gilleland...	June 20.....	373	12⅓ days	Contusion of head and body and left ankle sprained.
" 7 "	"	J. F. Knight.....	April 22.....	511	8½ days..	Scalp wound.

Roster of the Department

— AND —

Location of Companies.

1899.

OFFICERS.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
William C. McAfee	35	April 1, 1888...	Chief Engineer...	2216 Oak st	Plumber.
George W. Horton	53	Mar. 15, 1862...	1st Dist. " ...	404 Colvin st	Wire worker.
August Emrich	37	June 13, 1884...	2nd " " ...	1032 E. Monument st	Coal dealer.
Frederick Brannan	52	April 1, 1879...	3rd " " ...	324 W. Twenty-first st	Harnessmaker.
Fielding H. Lucas	48	April 1, 1881...	4th " " ...	1013 N. Arlington ave	Type founder.
Levin H. Burkhardt	32	Nov. 3, 1890...	5th " " ...	1252 Barclay st	Carpenter.
E. Louis Shipley	39	July 1, 1891...	6th " " ...	1819 Druid Hill ave	Shoemaker.
George J. Linsenmeyer	57	April 20, 1883...	Supt. of Mach'y..	1436 Battery ave	Machinist.
Thomas G. Griffith	27	June 1, 1898...	Asst.Supt.Mach'y	1908 McElderry st	"

NO. 1 ENGINE COMPANY.—*Located on Paca Street, North of Fayette Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
James T. Dunn	39	April 1, 1890...	Captain	636 W. Fayette st	Iron Moulder.
William F. Morrow	50	April 1, 1876...	Lieutenant	522 Laurens st	Moulder.
John H. Deal	57	Feb. 1, 1872...	Engineman	1519 Myrtle ave	Machinist.
William H. Hardy	35	Mar. 1, 1895...	Asst. Engineman	328 S. Poppleton st	"
Louis J. Fresh	56	Dec. 16, 1872...	Hostler	507 N. Schroeder st	Carpenter.
Albert Oelman	33	June 28, 1888...	Pipeman	628 W. Saratoga st	Blacksmith.
George W. Bentz	59	April 1, 1868...	"	523 W. Saratoga st	Baker.
Joseph G. Burger	40	Mar. 30, 1897...	"	1139 N. Calhoun st	Driver.
Philip J. Knell	41	April 25, 1897...	"	620 Conway st	"
Marion L. Sunderland	24	Oct. 4, 1898...	"	614 S. Paca st	"
Robert T. Forsyth	31	Feb. 24, 1899...	"	1429 William st	Tinner.
Daniel O. Sullivan	23	July 31, 1899...	Probationer	620 Forrest st	Clerk.

No. 2 ENGINE COMPANY.—*Located on Barre Street, West of Sharp Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
William R. Bolgiano	40	April 28, 1898	Captain	6 E. Montgomery st	Clerk.
George C. Young	47	Mar. 31, 1891	Lieutenant	23 W. Hill st	Tinner.
Thomas S. Atkinson	49	Aug. 5, 1881	Engineman	226 N. Monroe st	Machinist.
Daniel H. Weber	39	Aug. 1, 1889	Asst. Engineman.	23 W. Hill st	Machinist.
Frank Hines	35	Apr. 30, 1890	Hostler.	936 Sharp st	Tinner.
George H. Hewitt	34	May 4, 1891	Pipeman	406 Sharp st	Brushmaker.
Charles E. Rice	30	Apr. 15, 1893	"	1633 W. Lexington st	Packer.
William Kimball	29	Mar. 7, 1895	"	101 Roseland ave	Paper-hanger.
William H. Bell	43	May 22, 1894	"	1118 Cleveland st	Blacksmith.
Edward Tauber	33	June 1, 1890	"	21 W. Hill st	Driver.
John J. Schlag	33	Nov. 27, 1897	"	1156 Scott st	Moulder.
Charles H. Baker	47	Apr. 1, 1889	"	1928 W. Hollins st	Scale-maker.

No. 3 ENGINE COMPANY.—*Located on East Lombard Street, near High Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
August Schlimm	33	Apr. 1, 1890	Captain	305 S. Central av	Hostler.
Francis Heusman	25	Mar 19, 1898	Lieutenant	1919 Ramsay st	Flyman.
William T. Hubbard	41	Dec 7, 1893	Engineman	31 S. Bond st	Marine engineer.
Joseph P. Whalen	34	July 28, 1896	Asst Engineman	107 S. High st	Machinist.
John I. Buck	31	Dec. 12, 1897	Hostler	1423 Hoffman st	Bricklayer.
Herman Fumbaugh	41	Apr. 1, 1888	Pipeman	1817 E. Lombard st	Hostler.
Frank Doerer	34	Mar. 5, 1895	"	111 N. Durham st	Hostler.
Arthur G. Harrison	27	June 3, 1897	"	1610 E. Pratt st	Plumber.
John Grasmick	26	Dec. 24, 1892	"	2029 Bank st	Carpenter.
John T. Seabreaze	54	Feb. 5, 1892	"	125 S. Ann st	Painter.
James Robb	23	May 26, 1898	"	112 S. Collington ave	Laborer.
Howard Dixon	25	June 30, 1899	Probationer.	436 E. Lanvale st	Goldbeater.

No. 4 ENGINE COMPANY.—*Located on Lexington Street, between North and Calvert Streets.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Lawrence Pistel	49	May 1, 1873	Captain	1544 Argyle ave	Cigarmaker.
John T. Owens	27	July 25, 1896	Lieutenant	1611 N. Wolfe st	Electric winder.
Herbert W. Peerce	32	July 1, 1891	Engineman	725 E. Preston st	Machinist.
Charles A. Fraser	34	Mar. 28, 1898	Ass't Engineman	1208 W. Lombard st	Machinist.
Israel D. Appleby	47	Dec. 12, 1896	Hostler	1933 Hollins st	Driver.
Constant Siebert	45	Apr. 5, 1883	Pipeman	107 N. Collington ave	Driver.
Francis C. H. Berger	43	Apr. 3, 1886	"	908 Ensor st	Silversmith.
Henry F. Boerner	39	Mar. 1, 1895	"	707 Colvin Place	Tinsmith.
George A. Ford	41	May 1, 1896	"	731 35th st., Hampden	Clerk.
Harry C. Grimes	30	June 4, 1897	"	214 N. Poppleton st	Machinist
David Perlman	26	Oct. 6, 1898	"	36 S. High st	Tailor.
Michael Kram	36	Dec. 28, 1898	"	1104 E. Hoffman st	Cooper.
Courtney Crabster	29	Sept. 8, 1899	Probationer.	1427 Ridge Place	Ironmaker.

No. 5 ENGINE COMPANY.—*Located on Ann Street, near Gough Street.*

Name.	Age.	Date of Appointment	Position.	Residence.	Former Occupation.
Andrew W. German	50	June 1, 1872	Captain	153 Milton ave	Painter.
Charles Rosenthal	42	Oct. 1, 1890	Lieutenant	12 S. Ann st	Carpenter.
Frederick L. Nelson	52	Dec. 1, 1874	Engineman	404 S. Ann st	Machinist.
John M. Foard	29	Dec. 15, 1897	Ass't Engineman	254 S. Ann st	Machinist.
Henry Murphy	48	Dec. 31, 1880	Hostler	2052 Bank st	Sugar refiner.
Henry R. Seippel	50	Dec. 1, 1874	Pipeman	103 S. Ann st	Barber.
William B. Baker	42	June 17, 1882	"	208 S. Ann st	Brass finisher.
John F. Bilson	36	June 20, 1892	"	2000 E. Lombard st	Painter.
Anthony Schoepplein	44	June 24, 1891	"	300 S. Regester st	Cooper.
William J. Bateman	25	Nov. 1, 1897	"	213 S. Exeter st	Varnisher.
William Landefeld	35	Dec. 12, 1896	"	405 N. Patterson Park av	Cutter.

No. 6 ENGINE COMPANY.—*Located corner of Gay and Ensor Streets.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
George W. Smith	42	May 12, 1890	Captain	903 Columbia ave	Plumber.
Frederick C. Weiss	26	Oct. 1, 1896	Lieutenant	2009 Gough st	Machinist.
Matthew Mulligan	60	Oct. 8, 1870	Engineman	1027 Valley st	"
Frank Huart	28	April 21, 1896	Ass't Engineman	1804 E. Townsend st	"
Andrew A. Albert	34	April 6, 1895	Hostler	1019 N. Castle st	Hostler.
George Sykes	38	May 6, 1892	Pipeman	725 Ensor st	Collarmaker.
Isaac Cuddy	29	Dec. 2, 1893	"	806 N. Central ave	Carpenter.
John T. Gordon	26	Aug. 10, 1895	"	420 N. Gay st	Soap presser.
William McK. Morrow	30	May 14, 1895	"	1213 Ashland ave	Paper carrier.
Frederick Kaufman	26	Sept. 7, 1895	"	817 N. Wolf st	Carriagesmith.
Gustave Miller	27	March 1, 1895	"	507 N. Bond st	Hostler.
Charles Hesse	31	Nov. 3 1897	"	1126 E. Lombard st	Shoemaker.

No. 7 ENGINE COMPANY.—*Located corner of Eutaw Street and Druid Hill Avenue.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation
Samuel R. Watkins	44	July 24, 1891	Captain	284 Harford road	Sailmaker.
John A. McKew	31	April 1, 1893	Lieutenant	2042 E. Preston st	Machinist.
Samuel W. Stansbury	49	Dec. 1, 1874	Engineman	1925 W. Baltimore st	"
Frank R. Nehren	34	July 1, 1891	Ass't Engineman	928 Argyle ave	"
Harman Schiminger	45	April 1, 1890	Hostler	824 W. Saratoga st	Driver.
George Schneider	31	Oct. 15, 1892	Pipeman	907 Madison ave	Gasfitter.
John Weinkamp	32	April 14, 1891	"	655 Mulberry st	Cigarmaker.
Samuel A. Seymour	39	Dec. 7, 1885	"	762 McHenry st	Canmaker.
Walter Filling	25	Oct. 5, 1898	"	1126 Ridgely st	Driver.
Harry W. Rice	26	Jan. 10, 1899	"	1519 Edmondson ave	Salesman.
Clinton M. Soper	28	Jan. 20, 1899	"	2566 Druid Hill ave	Driver.
Conrad Reges	27	April 14, 1899	Probationer	502 S. Washington st	Wood finisher.

No. 8 ENGINE COMPANY.—*Located on Mulberry Street, near Arlington Avenue.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
William J. Stewart	48	Mar. 26, 1875	Captain	424 Arlington ave	Tinner.
John W. Cook	38	May 7, 1893	Lieutenant	637 Mosher st	Baker.
Charles E. Freeburger	51	June 1, 1875	Engineman	1202 W. Franklin st	Machinist.
William F. Awalt	38	April 1, 1890	Ass't Engineman.	312 N. Poppleton st	Machinist.
James McGlennon	37	Aug. 31, 1888	Hostler	263 N. Schroeder st	Moulder.
Charles Airey	47	Nov. 1, 1884	Pipeman.	417 N. Stricker st	Cigarmaker.
Thomas W. Jessop	39	Mar. 1, 1895	"	2003 W. Lafayette ave	Moulder.
Greenberry B. Chapman.	67	Mar. 1, 1871	"	954 W. Franklin st	Shoemaker.
William Eckert	41	April 15, 1887	"	1033 W. Mulberry st	Brushmaker.
James A. De Puey,	41	Oct. 1, 1897	"	1931 W. Lanvale st	Paperhanger.
Joseph F. Squires	31	July 1, 1898	"	17 S. Carey st	Plumber.

No. 9 ENGINE COMPANY.—*Located on Madison Street, East of Broadway.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Charles Betz	46	Sept. 4, 1885	Captain	426 Colvin st	Shoemaker.
William H. Perrine	32	Dec. 11, 1896	Lieutenant	1107 Proctor st	Salesman.
Daniel R. Rodgers	53	Feb. 1, 1872	Engineman	1005 McDonogh st	Machinist.
Charles A. Litchfield	26	Dec. 15, 1897	Ass't Engineman	217 Mount st	Machinist.
Frisby Lloyd	39	Dec. 11, 1896	Hostler	951 N. Washington st	Canmaker.
James McDevitt	56	Feb. 1, 1872	Pipeman	803 N. Washington st	Harnessmaker.
William H. Cuddy	42	June 29, 1888	"	1515 E. Madison st	Driver.
John Amend	39	Oct. 17, 1892	"	2209 Jefferson st	Boxmaker.
Richard V. Pittinger	51	Apr. 1, 1880	"	1833 Jefferson st	Carpenter.
Frank G. Smith	26	Apr. 1, 1897	"	2426 E. Fayette st	Can capper.
Albert Raine	27	Mar. 29, 1896	"	1523 N. Spring st	Salesman.
Edward C. Walker	30	Mar. 22, 1899	Probationer	509 E. Randall st	Painter.

No. 10 ENGINE COMPANY—*Located on Columbia Avenue, near Poppleton Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Henry Stagge	34	July 1, 1891	Captain	1117 Bowen st	Moulder.
Albert A. Torney	35	May 11, 1897	Lieutenant	127 Parkin st	Butcher.
John W. Walsh	50	Mar. 14, 1876	Engineman	1115 W. Baltimore st	Machinist.
James Nugent	43	Oct. 1, 1884	Ass't Engineman	419 S. Poppleton st	"
James T. Higdon	30	May 13, 1897	Hostler	1146 Nanticoke st	Driver.
Justice G. Keilholtz	54	Dec. 1, 1874	Pipeman	896 W. Lombard st	Mantel setter.
John Eigenbrodt	38	Jan. 12, 1891	"	1134 Bowen st	Woodcarver.
Edward A. Ward	26	Mar. 1, 1895	"	1515 Battery ave	Driver.
Thomas Kerr	36	Aug. 31, 1889	"	1120 Columbia ave	Clerk.
Guy S. Ellis	37	July 1, 1898	"	345 S. Stricker st	Ironfinisher.
John Watson	26	Dec. 15, 1897	"	942 W. Mulberry st	Carpenter.
Edgar B. McKnew	23	May 19, 1899	Probationer	948 W. Lombard st	Horseshoer.

No. 11 ENGINE COMPANY—*Located on Eastern Avenue, corner Patterson Park Avenue.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Michael A. Lind	38	July 13, 1887	Captain	505 S. Patterson Park ave	Painter.
Thomas Flaherty	39	Jan. 29, 1892	Lieutenant	2015 Bank st	Pilot.
John Calder	53	Oct. 8, 1870	Engineman	422 S. Patterson Park ave	Machinist.
John Lindeman	52	Apr. 7, 1889	Ass't Engineman	2036 Bank st	"
Patrick H. Birthistle	32	Feb. 14, 1893	Hostler	9 N. Patuxent st	Driver.
Joshua H. Miller	43	Nov. 10, 1885	Pipeman	14 N. Curley st	Cigarmaker.
Albert H. Gier	45	Apr. 1, 1879	"	1913 E. Lombard st	Painter.
Philip Peacock	41	Mar. 1, 1895	"	608 S. Washington st	Tinner.
George Shipley	42	Nov. 30, 1889	"	23 N. Chester st	Gilder.
John W. Barton	35	June 7, 1892	"	22 N. Rose st	Moulder.
John F. Curry	31	July 15, 1894	"	514 S. Montford ave	Stove mounter.
Frederick N. Duke	33	June 16, 1899	Probationer	2227 Essex st	Laborer.

No. 12 ENGINE COMPANY.—*Located on Fort Avenue, corner of Riverside Avenue.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John B. Bortell	34	Sept. 7, 1888	Captain	2326 E. Fayette st	Ship rigger.
Edward C. Klessel	47	Feb. 11, 1882	Lieutenant	1442 Riverside ave	Gilder.
Michael Lycett	53	Dec. 15, 1872	Engineman	1512 Henry st	Machinist.
William F. Welsh	37	May 19, 1893	Asst. Engineman	1646 S. Charles st	"
Joseph W. Moon	49	Aug. 11, 1877	Hostler	436 E. Fort ave	Driver.
Peter McGonigle	39	Jan. 14, 1890	Pipeman	1265 Riverside ave	Cotton inspector.
Charles H. Wheatley	40	Feb. 22, 1896	"	1005 Riverside ave	Boilermak'r hlpr.
Joseph McKenna	29	Dec. 5, 1895	"	14 Beverly st	Hardwood finis'r.
John F. Moran	38	Mar. 1, 1896	"	1113 William st	Moulder.
Charles T. Taylor	25	June 1, 1898	"	1527 S. Charles st	Machinist.
George W. Stewart	25	Dec. 15, 1897	"	1141 S. Sharp st	Bottler.
William H. Chester	35	July 21, 1899	Probationer	1543 Newington Place	Hostler.

No. 13 ENGINE COMPANY.—*Located corner Fremont and Myrtle Avenues.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John Todd	35	June 1, 1891	Captain	1128 N. Carrollton ave	Laborer.
James Nolan	28	May 20, 1893	Lieutenant	232 N. Fremont ave	Collarmaker.
John A. Bannan	58	Sept. 8, 1877	Engineman	1117 Riggs ave	Machinist.
John W. Eckhardt	32	Aug. 5, 1890	Asst. Engineman	843 W. Fayette st	"
John F. Mackenzie	52	Feb. 8, 1889	Hostler	386 Waverly ave	Car driver.
Wilbur Pearce	42	Oct. 5, 1883	Pipeman	1203 Winchester st	Moulder.
Louis Buehler	25	Jan. 7, 1897	"	Lake Montebello	Blacksmith.
Clifton Hedley	27	April 8, 1897	"	1826 Division st	Painter.
Frederick G. Beck	45	Feb. 1, 1889	"	434 Wehage st	Photographer.
Frederick W. Viehmeyer	39	July 13, 1893	"	652 W. Mulberry st	Driver.
Albert Schyne	33	Aug. 10, 1895	"	1528 Division st	"
George H. Johnson	33	Oct. 23, 1899	Probationer	903 Harlem ave	"

No. 14 ENGINE COMPANY.—*Located on Hollins Street, near Monroe Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Jacob F. Rupp	42	June 29, 1888	Captain	21 S. Fulton ave	Plasterer.
William C. D. Knight	31	July 10, 1894	Lieutenant	1344 E. Fort ave	Driver.
John Gaffney	44	April 1, 1880	Engineman	1925 Hollins st	Machinist
Cornelius P. Kuhan	53	Dec. 19, 1892	Ass't Engineman	18 S. Monroe st	"
Joseph Lavender	52	Mar. 17, 1876	Hostler	771 W. Mulberry st	Driver.
C. Allen Orem	49	Sept. 2, 1880	Pipeman	2915 Walbrook ave., ann'x	Painter.
Leonard Jessop	44	July 1, 1892	"	2003 Hollins st.	Plasterer.
George D. Shanks	40	Dec. 13, 1896	"	1929 Hollins st	Shoemaker.
Herman Seeger	32	Dec. 2, 1897	"	1918 Frederick ave	Cigarmaker.
Walter T. Musgrove	28	April 8, 1897	"	Wesley ave., annex	Iron moulder.
George H. Mills	25	Oct. 19, 1898	"	1939 Hollins st	Driver.

No. 15 ENGINE COMPANY.—*Located on Lombard Street, between Eutaw and Howard Streets.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
James A Campbell	35	Jan. 16, 1894	Captain	525 N. Paca st	Stonecutter.
Michael J. Ready	30	May 30, 1896	Lieutenant	528 N. Calvert st	Woodturner.
John M. Frederick	37	Sept. 7, 1888	"	1724 Harford ave	Shoemaker.
John Conway	44	March 1, 1883	Engineman	1937 Hollins st	Machinist.
John J. Cahill	35	Feb. 15, 1893	Ass't Engineman	18 Parkin st	"
Edward R. McCullough	42	May 29, 1896	" "	22 N. Bond st	"
Mark Hill	47	April 1, 1890	Hostler	1604 W. Franklin st	Tinner.
Charles L. Schulte	41	Nov. 10, 1892	Pipeman	639 S. Paca st	Butcher.
Frank J. Lavender	28	July 9, 1895	"	735½ W. Mulberry st	Laborer.
August Lang	32	Nov. 18, 1893	"	818 St. Peter st	Cigarmaker.
John Kahl	30	Feb. 1, 1894	"	10 E. Hamburg st	Driver.
William E. Stewart	30	Nov. 15, 1893	"	206 N. Aisquith st	Iron-moulder.
John A. Henneman	37	April 15, 1895	"	1814 Division st	Driver.
Charles P. Griffin	47	Dec. 15, 1896	"	1103 Carroll st	Salesman.
John J. Flynn	32	Oct. 1, 1897	"	242 S. Regester st	Stationary eng'r.
George L. Krausz	32	Dec. 15, 1897	"	1438 Patapsco st	Brushmaker.
Otto Leidtke	26	Oct. 1, 1898	"	2818 Hudson st	Laborer.
George C. Lloyd	31	Feb. 29, 1892	"	1213 W. Cross st	Machinist.
Edward Kreager	30	Feb. 20, 1899	"	1718 Carlisle Place	Driver.
George W. Reinhardt	24	Feb. 20, 1899	"	2013 Fairmount ave	Salesman.
Martin Kirby	54	Feb. 1, 1883	Probationer	309 S. Exeter st	Trunkmaker.
Joseph F. Daly	22	May 17, 1899	"	132 N. Exeter st	Clerk.
Robert R. Higgins	24	May 13, 1899	"	2125 Fairmount ave	Machinist.
Plummer R. Ratcliffe	23	Aug. 19, 1899	"	1323 Glyndon ave	Printer.
Louis E. Schleicher	23	Sept. 6, 1899	"	1952 Hanover st	Burner of enamel ware.

No. 16 ENGINE COMPANY, FIREBOAT.—*Location, Commercial Wharf.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Henry C. Dotter	34	May 30, 1896	Captain	2327 Canton ave	Moulder.
Louis Harrer	42	Dec. 19, 1892	Lieutenant	227 S. Caroline st	Wharf builder.
William C. Stallings	51	Dec. 28, 1891	Pilot	309 S. Ann st	Pilot.
Iverson J. Moon	45	Oct. 15, 1898	"	834 William st	Mariner.
Thomas H. Meushaw	43	May 15, 1885	Engineman	2204 E. Lombard st	Machinist.
William L. Sbisa	36	July 28, 1896	Ass't Engineman	2127 E. Lombard st	Marine engineer.
Lawrence F. Rudolph	26	Mar. 15, 1895	" "	423 E. Fort ave	Machinist.
James H. Hoey	52	July 15, 1891	Stoker	218 S. Castle st	Stoker.
John Stanton	36	Mar. 15, 1895	"	2206 E. Lombard st	Boilermaker.
James G. Guy	31	Dec. 15, 1897	"	1511 N. Wolfe st	Railway fireman.
William H. Seibert	38	Oct. 1, 1897	Pipeman	3123 Elliott st	Stevedore.
George L. Schlimm	39	April 1, 1888	"	252 S. Exeter st	Boxmaker.
Gustave C. Raabe	37	Sept. 6, 1899	Probationer	713 W. Barre st	Driver.

No. 17 ENGINE COMPANY.—*Located corner Fort Avenue and Haubert Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John Prenger	47	April 15, 1890	Captain	1411 Hull st	Machinist.
Charles E. Dewitt	49	May 1, 1885	Lieutenant	2452 W. Baltimore st	Carpenter.
Thomas F. Sexton	45	July 1, 1888	Engineman	109 Clement st	Machinist.
John I. Cranford	30	Feb. 15, 1893	Ass't Engineman	503 Randall st	Machinist.
Caspar Kraft	39	Dec. 9, 1892	Hostler	1103 Riverside ave	Driver.
James Catterton	50	Oct. 23, 1886	Pipeman	1460 William st	Painter.
John Moeller	32	Oct. 13, 1893	"	1330 E. Fort ave	Packer.
Thomas Voyce	39	April 1, 1890	"	529 E. Fort ave	Boilermaker.
Frank A. Kraft	29	July 7, 1894	"	610 E. Fort ave	Painter.
Peter Lohman	41	May 1, 1896	"	1515 Jackson st	Laborer.
Daniel Vogelgesang	42	May 1, 1890	"	1425 Covington st	Canmaker.
James J. Knox	39	Mar. 6, 1895	"	1441 Decatur st	Laborer.

No. 18 ENGINE COMPANY—*Located on Twenty-first Street, near Maryland Avenue*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John H. Morgan	49	Nov. 29, 1872	Captain	2360 Oak street	Paperhanger.
William H. Quincy	44	Feb. 7, 1893	Lieutenant	334 E Lafayette ave	Stonecutter
Thomas S. Brown	40	Aug. 1, 1886	Engineman	122 W. 24th street	Machinist.
Elijah J. B. Moore	36	Mar. 1, 1895	Ass't Engineman.	1306 Valley street	"
John W. Potts	42	June 1, 1888	Hostler	2356 Oak street	Driver.
Robert H. Blatchley	29	Feb. 14, 1893	Pipeman	510 E. 26th street	Painter.
William J. McDonald	32	Mar. 1, 1895	"	2726 Huntingdon avenue	Tinner.
Thomas H. Sutton	29	Jan. 1, 1895	"	2441 Barclay street	Motorman.
George U. McFadden	31	May 10, 1892	"	3222 Cedar avenue	Carpenter.
Joseph J. Presley	32	Feb. 14, 1893	"	1420 Druid Hill avenue	Car driver.
Joseph Barrett	24	Nov. 14, 1898	"	1421 Clement street	Stevedore.
William A. Hall	35	Mar. 1, 1895	"	711 Warner street	Stonecutter.

No. 19 ENGINE COMPANY—*Located corner of North Avenue and Bond Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Benjamin Price	55	April 1, 1879	Captain	2615 Atlantic avenue	Coffee roaster.
George E. Croucher	37	Mar. 1, 1888	Lieutenant	2012 E. North avenue	Canmaker.
John N. Bletzer	36	Jan. 25, 1889	Engineman	722 S. Bond street	Machinist.
Jacob S. Corns	46	Mar. 1, 1895	Ass't Engineman	1812 N. Broadway	"
Michael J. Farley	37	April 26, 1889	Hostler	1827 N. Bond street	Driver.
John F. Maguire	31	Feb. 7, 1893	Pipeman	1747 E. North avenue	Shipping clerk.
Harry F. Bodge	41	June 22, 1892	"	1505 N. Washington st	Hardw'd finisher.
Nicholas Barrett	32	June 25, 1895	"	1016 Clifton Place	Horseshoer.
Louis Lohmann	39	Mar. 6, 1895	"	1546 N. Gay street	Varnisher.
James Radford	35	Mar. 9, 1897	"	1712 E. Lanvale street	Driver,
George Yurek	26	Mar. 13, 1899	"	623 S. Wolfe street	Brass finisher.
Harry L. Curran	28	Oct. 6, 1898	"	1512 E. Federal street	Driver.

NO. 20 ENGINE COMPANY.—*Located on West North Avenue, near Tenth Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
William F. Kennard	33	Sept. 5, 1891	Captain	3024 Northwest st	Clerk.
William I. Johns	40	Aug. 3, 1888	Lieutenant	1430 E. Lanvale st	Bricklayer.
Thomas F. Sadler	41	Nov. 5, 1896	Engineman	1319 Edmondson ave	Machinist.
Jacob M. L. Buckey	38	Oct. 5, 1898	Ass't Engineman	639 W. Barre st	"
Richard H. Hobson	36	Aug. 20, 1896	Hostler	1901 Braddish ave	Laborer.
Samuel W. Marker	48	April 15, 1880	Pipeman	1806 Ninth st	Carpenter.
William J. Watkins	37	Aug. 2, 1895	"	625 Payson st	Cotton Inspector.
Phillip Bowen	48	Mar. 19, 1877	"	3022 Northwest st	Cigarmaker.
Hugh P. Fox	41	July 8, 1892	"	2911 Walbrook ave	Blacksmith.
Walter J. Woods	47	Mar. 26, 1897	"	2814 W. Lanvale st	Carpenter.
William S. Couzens	38	Feb. 4, 1898	"	1414 E. Lanvale st	Collarmaker.
Andrew Lee	47	Mar. 6, 1899	"	1522 Baker st	Driver.

NO. 21 ENGINE COMPANY.—*Located corner Roland Avenue and Oliver Place.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John Hoffman	52	April 1, 1879	Captain	637 Pitcher st	Canmaker.
Frederick J. Stroehlein	27	Dec. 17, 1896	Lieutenant	1801 E. Fayette st	Clerk.
Jackson H. Hederick	35	Dec. 23, 1896	Engineman	121 N. Patterson Park av.	Machinist.
Thomas S. Roberts	39	April 1, 1897	Ass't Engineman	204 W. Twenty-fifth st	"
Thomas R. Wann	31	Mar. 9, 1897	Hostler	519 Oliver Place	Motorman.
J. Frederick Schaefer	62	April 1, 1888	Pipeman	719 W. Baltimore st	China Packer.
James L. Clarken	41	Aug. 1, 1888	"	226 Hickory ave	Driver.
John Bell	42	Sept. 15, 1897	"	527 Oliver Place	Porter.
Howard Waite	24	Dec. 15, 1897	"	2647 Maryland ave	Painter.
John R. Miller	29	Mar. 1, 1895	"	701 Blucher ave	Carpenter.
George W. Wanner	27	Oct. 5, 1898	"	905 N. Gay st	Clerk.
Edward E. Harp	28	Oct. 1, 1897	"	712 Second ave	Lineman.

No. 1 HOOK AND LADDER COMPANY—*Located on Harrison Street, near Fayette Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Robert R. Perry	31	June 7, 1892	Captain	2219 Orleans st.	Ironmoulder.
T. Edward Burch	38	Sept. 22, 1896	Lieutenant	2209 Gough st.	Tinner.
George W. Haskell	54	Apr. 22, 1876	Tillerman	1802 Gough st.	Carpenter.
Harry A. Donahoo	31	May 29, 1896	Ass't Tillerman	211 S. Bond st.	Cutter.
John T. Mulligan	39	Jan. 20, 1885	Hostler	14 N. Front st.	Driver.
Zachariah T. Seabreeze	51	Apr. 1, 1890	Ladderman	125 S. Ann st.	Driver.
Joseph H. Daly	47	Jan. 15, 1881	"	132 N. Exeter st.	Stonecutter.
James P. Lyons	28	Mar. 1, 1895	"	915 E. Baltimore st.	Horseshoer.
John R. Herr	28	Nov. 20, 1895	"	1939 Fairmount ave.	Clothing cutter.
William G. Schultz	27	May 20, 1896	"	1718 E. Pratt st.	Boxmaker.
Robert C. Creamer	32	Mar. 9, 1897	"	1507 N. Dallas st.	Carpenter.
Adolph Vanderlinde	22	Aug. 28, 1899	Probationer	513 S. Howard st.	Engineer.

No. 2 HOOK AND LADDER COMPANY—*Located on Paca Street, near Fayette Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Emile Heise	40	Mar. 1, 1890	Captain	1404 E. Fayette st.	Furniture packer
John L. Emerson	31	Jan. 18, 1892	Lieutenant	2406 Druid Hill ave.	Painter.
Frederick W. Johnston	30	May 1, 1894	Tillerman	2127 W. Lexington st.	Carpenter.
George E. Fornwalt	30	Jan. 17, 1897	Ass't Tillerman	1302 W. Lafayette ave.	Fireman.
Thomas Montgomery	58	Apr. 1, 1870	Hostler	121 N. Paca st.	Driver.
William P. Burke	35	Mar. 1, 1895	Ladderman	2020 Eastern ave.	Boilermaker.
George J. Hamilton	24	Dec. 15, 1897	"	119 N. Paca st.	Driver.
Quincy A. G. Hughes	36	Dec. 12, 1896	"	1811 Fairmount ave.	Freight handler.
Howard Travers	24	Apr. 29, 1897	"	119 N. Paca st.	Laborer.
John W. Wittig	28	Apr. 27, 1898	"	410 S. Ann st.	Laborer.
Joseph Daley	28	Mar. 27, 1897	"	721 Cumberland st.	Driver.
Jacob F. Kirkwood, Jr.	23	Sept. 19, 1899	Probationer	686 Columbia ave.	Salesman.

No. 3 HOOK AND LADDER COMPANY.—*Located on South Ann Street, near Gough Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
George W. Foxwell	53	Jan. 1, 1871	Captain	1911 Bank st	Shipwright.
Peter Nelson	41	Jan. 3, 1890	Lieutenant	14 S. Ann st	Seaman.
John N. Downs	52	Jan. 1, 1871	Tillerman	2123 Orleans st	Painter.
James F. Reilly	47	Nov. 13, 1874	Ass't Tillerman	1633 E. Lombard st	"
William Hastler	36	Mar. 21, 1893	Hostler	1925 Canton ave	Hostler.
John McClellan	66	Jan. 1, 1871	Ladderman	1814 Fairmount ave	Sailmaker.
Frederick Grouling	35	Dec. 26, 1892	"	2031 Canton ave	Laborer.
Christian Fitzberger	29	Mar. 1, 1895	"	123 S. Caroline st	China packer.
Michael E. Lynch	39	June 1, 1893	"	244 S. Regester st	Laborer.
Joseph M. Diggs	31	May 30, 1896	"	214 S. Castle st	Iron moulder.
George E. Wellslager	28	Dec. 15, 1897	"	214 N. Patterson P'k ave.	Shearcutter.
Alpha T. Stover	25	Oct. 6, 1898	"	1840 Gough st	Driver.

No. 4 HOOK AND LADDER COMPANY.—*Located on Biddle Street, near Druid Hill Avenue.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Andrew J. Bilson	48	July 2, 1896	Captain	629 N. Carey st	Plasterer.
Henry J. Carle	29	April 2, 1894	Lieutenant	603 W. Biddle st	Electrotyper.
George E. Gill	41	Jan. 9, 1891	Tillerman	1009 Pennsylvania ave	Painter.
Milton R. Quigley	35	Nov. 20, 1897	Ass't Tillerman	509 Pine st	Plumber.
Andrew J. Connelly	44	April 1, 1882	Hostler	411 Pine st	Driver.
Charles Sapp	38	April 15, 1893	Ladderman	1418 W. Pratt st	Laborer.
William Schipferling	26	June 10, 1898	"	222 E. Cross st	Baker.
Lawrence Blake	53	April 1, 1871	"	1543 N. Aisquith st	Painter.
Benjamin Goetzinger	28	April 27, 1898	"	2119 E. Monument st	Driver.
James H. Wentz	25	Sept. 1, 1898	"	306 Parkin St	Stone-cutter.
Frank Dolan	31	Nov. 2, 1898	"	1009 Pennsylvania ave	Iron-moulder.
James S. Webb	37	Mar. 9, 1899	"	1047 W. Lexington st	Driver.

No. 5 HOOK AND LADDER COMPANY.—*Located on Aisquith Street, near Oliver Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Franklin A. Teal	27	Jan. 24, 1896	Captain	1308 Aisquith st	Street paver.
George E. McNeil	27	July 28, 1897	Lieutenant	1432 Harford ave	Stoker.
Louis Herman	29	Oct. 1, 1897	Tillerman	1620 Durham st	Machine hand.
James McCarron	29	Mar. 1, 1895	Ass't tillerman	2002 E. Chase st	Potter.
William Quinn	50	April 1, 1887	Hostler	1037 N. Eden st	Driver.
Frederick W. Harman	35	Aug. 31, 1892	Ladderman	417 Mott st	Brassfinisher.
George F. Thompson	47	April 1, 1892	"	1049 Harford ave	Strawhatmaker.
George Hanauer	25	Dec. 17, 1897	"	2110 E. Fayette st	Tinner.
John Sullivan	36	Dec. 8, 1890	"	1206 Harford ave	Painter.
Stephen Cosgrove	23	Oct. 6, 1898	"	831 Woodward st	Printer.
Robert E. L. Johns	36	Feb. 7, 1898	"	1613 E. Lanvale st	Carpenter.
Peter B. Mullen	41	July 1, 1891	"	1332 Hillman st	Painter.

No. 6 HOOK AND LADDER COMPANY.—*Located Northeast corner Hanover and Ostend Streets.*

Name.	Age.	Date of Appointment.	Position	Residence.	Former Occupation.
Paul Linde	33	Feb. 24, 1891	Captain	564 W. Dolphin st	Canmaker.
George S. Koller	27	Oct. 11, 1897	Lieutenant	21 W. Ostend st	R. R. fireman.
James Gill	44	April 1, 1879	Tillerman	8 E. West st	Moulder.
Amos G. Bramble	31	Mar. 1, 1895	Ass't tillerman	1516 S. Charles st	Driver.
Louis Matthaei	35	Nov. 12, 1891	Hostler	1336 Hanover st	Driver.
Henry Toepfer	32	Feb. 11, 1893	Ladderman	1906 Light st	Baker.
Charles F. Fay	42	Feb. 14, 1893	"	21 E. Ostend st	Carpenter.
William Leonard	43	Feb. 23, 1894	"	1307 Marshall ave	Driver.
Joseph P. Neubert	47	Mar. 1, 1895	"	1364 Andre st	Electrician.
William S. Fort	31	Feb. 8, 1898	"	1329 Hanover st	Painter.
Henry Meil	26	Dec. 15, 1896	"	1715 E. Barnes st	Carpenter.
James A. Nash	35	Apr. 29, 1898	"	113 E. Ostend st	Moulder.

No. 7 HOOK AND LADDER COMPANY.—*Located at Waverly.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Andrew J. McCormick...	40	May 19, 1889...	Hostler.....	505 Friendship lane.....	Car driver.

No. 8 HOOK AND LADDER COMPANY.—*Located on Brunswick Street, near Frederick Road.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John L. Durham.....	36	May 5, 1889.....	Driver.....	137 Millington ave.....	Plumber.

No. 9 HOOK AND LADDER COMPANY.—*Located corner Roland Avenue and Oliver Place.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John L. Thomas.....	30	June 1, 1892.....	Driver.....	295 Chestnut avenue.....	Blacksmith.

No. 10 HOOK AND LADDER COMPANY.—*Located on Lafayette Avenue, between Stricker and Gilmor Sts.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Malcom W. Jordan	30	July 25, 1891	Captain	1026 N. Gilmor st	Driver.
Henry C. Kabernagel	40	April 17, 1896	Lieutenant	1418 W. Lafayette ave	Laborer.
William F. Beall	38	April 1, 1887	Tillerman	2858 Raynor ave	Canmaker.
John J. Purcell	28	April 21, 1896	Ass't tillerman	1113 N. Gilmor st	Carpenter.
Cooper Elliott	47	Oct. 4, 1887	Hostler	1318 E. Monument st	Driver.
Charles E. Brown	30	Oct. 1, 1893	Ladderman	1632 W. Lanvale st	Laborer.
William T. Hughes	34	Feb. 4, 1898	"	710 Blucher st	Stonecutter.
Lewis Moore	35	Feb. 21, 1898	"	1918 White st	Baker.
Frank H. Carr	23	Dec. 15, 1897	"	19 Penn st	Steamfitter.
Henry Marks	26	Oct. 25, 1898	"	1135 Light st	Laborer.
James McGee	42	Sept. 27, 1897	"	120 N. Poppleton st	Driver.
Augustus I. Walker	35	Oct. 8, 1898	"	1504 W. Lafayette ave	Plumber.

No. 11 HOOK AND LADDER COMPANY.—*Located on Twenty-first Street, near Maryland Avenue.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Thomas J. Strahler	40	Dec. 10, 1881	Captain	1320 Ensor st	Tinner.
Edward W. Steinacker	39	June 1, 1888	Lieutenant	2710 Huntingdon ave	Hostler.
Frank A. Hanssen	31	Dec. 12, 1892	Tillerman	917 Arlington ave	Blacksmith.
Edgar T. Beach	27	Aug. 4, 1897	Ass't Tillerman	1817 Maryland ave	Steamfitter.
Charles E. Zimmerman	31	Oct. 1, 1897	Hostler	412 Turner Place	Hostler.
William H. Darney	28	Feb. 18, 1898	Ladderman	3 Mine Bank lane	Carpenter.
Clarence Kirby	39	Dec. 12, 1896	"	2442 Francis st	"
William White	54	April 1, 1868	"	1101 N. Carrollton ave	"
Charles E. Edwards	27	June 1, 1898	"	416 Turner Place	Brakeman.
George T. Evans, Jr	22	July 27, 1898	"	922 E. Madison st	Upholsterer.
Charles L. Wain	31	Dec. 9, 1897	"	1225 Madison ave	Driver.
Henry Heinze	33	Aug. 1, 1898	"	1840 Harford ave	Shipping Clerk.
Ralph J. Hill	33	Aug. 19, 1899	Probationer	414 Turner Place	Laborer.

No. 1 CHEMICAL ENGINE COMPANY.—*Located on Brunswick Street, near Frederick Road.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Charles L. Steinwedel...	31	Mar. 9, 1897...	Captain.....	8 Carroll st.....	Laborer.
John A. Epp.....	37	Feb. 15, 1893...	Hostler.....	434 Frederick ave.....	Cabinetmaker.
Antone Yienger.....	35	July 23, 1889...	Pipeman	2210 Wilkens ave.....	Candymaker.
Joseph B. Rea.....	28	May 13, 1899...	Probationer	809 Scott st.....	Driver.

No. 2 CHEMICAL ENGINE COMPANY.—*Located on Mary Street, near Retreat Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
James K. Merriken..	37	Aug. 1, 1888...	Captain.....	3019 Pennsylvania ave.....	Driver.
Christian Freyer.....	40	May 1, 1893...	Hostler.....	2104 Walbrook ave..... ..	Blacksmith.
John M. Gilleland	32	April 3, 1895...	Pipeman	1395 Fulton ave.....	Driver.

No. 3 CHEMICAL ENGINE COMPANY.—*Located at No. 20 Engine House, Walbrook.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
James A. Clark.....	35	Aug. 25, 1891...	Captain.....	2543 York road.....	Car-driver.
James B. Kelley.....	42	April 1, 1887...	Hostler.....	1528 Division st.....	Driver.
Charles M. Johannes.....	33	Jan. 25, 1895...	Pipeman.....	3013 Northwest st.....	Stonecutter.

REPORT

— OF THE —

Superintendent Fire Alarm Telegraph.

REPORT.

To the Honorable Board of Fire Commissioners:

GENTLEMEN: Herewith I submit my annual report for the year ending December 31st, 1899.

I am very happy to report that during the past twelve months there has been no serious interruption to our circuits, or loss of equipment, and that even minor interruptions are growing less frequent, which is largely due to the rebuilding of our ariel lines, and when these lines shall all have been rebuilt, the fire-alarm wires will be in better shape than they have ever been heretofore, and the interruption of the lines should be rare.

POLE LINES.

During the month of July the Chesapeake and Potomac Telephone Company attempted to rebuild the line of fire-alarm poles on the west side of Fremont street, without consulting this Department, claiming that by an arrangement with a former Superintendent of Telegraph, they had once before rebuilt this line, and were joint owners with the city. I refused to recognize this claim, and insisted that they must discontinue all work on the line until satisfactory arrangements for rebuilding lines had been entered into. Meanwhile the Maryland Telephone and Telegraph Company had secured from the City Commissioner permits to erect a large number of poles in various parts of the city. In many places it was intended to place their poles between the poles of this Department. Against this I protested to the City Commissioner, who requested that I designate in writing what lines were objected to. In compliance with this request I wrote as follows :

BALTIMORE, MD., July 15th, 1899.

MR. W. W. VARNEY,
City Commissioner.

DEAR SIR:

Replying to yours of the 14th inst. in re-application Maryland Telephone and Telegraph Company for permission to place poles at various locations on the streets of Baltimore already occupied by lines of poles belonging to the city, I beg to advise that we object to the placing of any telegraph poles between the poles of this Department, for the obvious reason that they will be a constant source of menace and trouble to our wires, increase the cost of maintenance of the fire alarm lines to the city, and subject the citizens to largely increased fire risks by reason of the liability to interference by proximity of such wires to wires of the Fire Alarm Telegraph. Where it is proposed to raise the poles on the opposite side of a street upon which the city has a line of poles, the additional line is objected to as an unnecessary multiplication of poles. Under proper arrangement the poles of the city could be utilized by the Maryland Telephone and Telegraph Company, and with advantage to the city. The location of poles desired by the Maryland Telephone and Telegraph Company on the south side of Eastern avenue, from Montford avenue to city limits; on the south side of North avenue, from Oliver street to Pennsylvania avenue; on the north side of Laurens street, from Bolton street to Madison avenue, and on south side of Biddle street, from Richmond to Morris alley, are particularly objected to for the reasons above stated. Having gone over the ground very carefully with the city pole inspector, Mr. Carroll Mann, I have no doubt that he is sufficiently well posted to give such further information as you may require.

Very respectfully,

F. G. BOYD,
Superintendent.

This had the effect of stopping the erection of poles on streets where fire alarm lines existed, and the ever-increasing opposition of citizens and property owners to the planting of poles in other streets, finally induced the company to enter into an agreement for the use of city poles. This agreement is of great advantage to the city, for the reason that the lines used by the companies must be maintained without expense to the city; and to the citizens and taxpayers, because of the reduced number of poles on the streets and the increased fire protection, because the newly-built pole lines being much taller and stronger than the former lines materially reduces interruptions to fire circuits. The terms of the agreement are as follows:

1st. "The Maryland Telephone and Telegraph Company agree not to parallel any line of the Fire Alarm Telegraph System on any street, alley or lane of the city, but that in reaching into territory covered by lines of the Fire Alarm Telegraph System, it will use the said fire alarm lines."

2nd. "The Maryland Telephone and Telegraph Company will rebuild and maintain such fire alarm lines as it may use, removing old fire alarm poles and removing the wires of the Fire Alarm Telegraph System from old to new, free of all expense to the city."

3rd. "The Maryland Telephone and Telegraph Company to have such space on each pole as may be designated by the Board of Fire Commissioners, immediately below the upper cross-arm or arms occupied by the fire alarm telegraph wires, except where fire alarm lines have been rebuilt by other company or companies and are occupied by other wires, in which case changes in position of wires is to be made by mutual agreement between such other company or companies as may be occupying said poles. In the event of failure to reach an agreement the Board of Fire Commissioners will designate, order and enforce such changes in position of wires of such other company or companies as may, in their judgment, be fair and reasonable under the circumstances."

4th. "The occupancy of the said poles by the Maryland Telephone and Telegraph Company to continue as long as the city continues to use said poles, or until, under their franchise, the wires of the Maryland Telephone and Telegraph Company are required to be placed underground."

5th. "The said lines and poles to remain the property of the City of Baltimore, and to be at all times under the control of the Board of Fire Commissioners, but the wires, cross-arms, braces, etc., erected and used on such lines by the Maryland Telephone and Telegraph Company to remain the property of said company, the said cross-arms, braces, etc., not to be removed while the city continues to use said poles."

6th. "The employes and contractors of the Maryland Telephone and Telegraph Company in the performance of said work to be considered as employes of the Board of Fire Commissioners, and to be by the Board protected as such employes. All said work to be done under the supervision and control and in accordance with the specifications of the Board of Fire Commissioners, the Maryland Telephone and Telegraph Company assuming all responsibility for any and all accidents or damages that may occur during or in the performance of such work."

Under this agreement the Maryland Telephone and Telegraph Company has rebuilt the following lines:

William street, from Cross street to Hughes street.
Morton alley, from Twentieth street to Twenty-fifth street.
Twenty-fifth street, from Hunter alley to York road.
Fort avenue, from Lawrence street to Fort gate.
Hull street, from Fort avenue to water front.
Lawrence street, from Fort avenue to Clement street,
Clement street, from Lawrence street to Jackson street.
Belt street, from West street to Cross street.
Cross street, from Belt street to William street.
Hughes street, from William street to Covington street.
Cross street, from Light street to Eutaw street.

Eastern avenue, from Patterson Park avenue to city limits.
Fremont avenue, from Eutaw street to Columbia avenue.
Potomac street, from Elliott street to water front.
Elliott street, from Canton street to Chesapeake street.
Chesapeake street, from Hudson street to water front.
Hudson street, from Luzerne street to Chesapeake street.
Luzerne street, from Fait avenue to water front.
Fait avenue, from Luzerne street to Montford avenue.
Essex street, from Montford avenue to Patterson Park ave.
Gay street, from Broadway to North avenue.
Madison avenue, from McMechen street to North avenue.
Presstman street, from Madison avenue to Pennsylvania avenue.
Pennsylvania avenue, from Hoffman street to Retreat street.
Patterson avenue, from Pennsylvania avenue to Fremont avenue.
Patterson avenue, from Stricker street to Gilmor street.
Mulberry street, from Fremont avenue to Monroe street.
Schroeder street, from Mulberry street to Lexington street.
Carrollton avenue, from Mulberry street to Lexington street.
Carey street, from Mulberry street to Edmondson avenue.
Stricker street, from Mulberry street to Lexington street.
Mount street, from Mulberry street to Edmondson avenue.

This company has also applied for and received permission from the Board of Fire Commissioners to rebuild a number of other lines on which the work has not yet been begun.

The Chesapeake and Potomac Telephone Company, under a similar agreement, has rebuilt the following lines:

Twenty-fifth street, from Morton alley to Huntingdon ave.
Huntingdon avenue, from Twenty-fifth street to Thirtieth street.
Thirtieth street, from Huntingdon avenue to Remington avenue.
Remington avenue, from Thirtieth street to Cedar avenue.
Cedar avenue, from Remington avenue to Third avenue.
Third avenue, from Cedar avenue to Falls road.

Chester street, from Gay street to Biddle street.

Belair road, from North avenue to No. 6 Chemical Engine House.

Fremont avenue, from Franklin street to Smith street.

This company has also secured the right to rebuild other fire-alarm lines, the rebuilding of which will be pushed forward as rapidly as the weather will permit.

PAINTING.

The fire boxes and box poles have recently been repainted and relettered, which has very much improved their appearance, and was badly needed.

FIRE BOXES.

During the early part of the year every fire box in the service was given a thorough overhauling. All defective insulation was corrected, all imperfect wiring was replaced with rubber covered wire, all joints were soldered; all missing bushings screws replaced and the mechanical parts put in perfect working order, so that when the box was replaced in service it was equal to new. This work was all done by our own men in the most economical manner, the fact that since the completion of this work none of the boxes have been damaged, although our circuits have several times been crossed by currents of high voltage, nor has any failed to register when pulled, demonstrates that this expenditure was in the line of economy.

During the year nine (9) new fire boxes have been placed in service, viz. :

144—Reliable Furniture Co., President and Fawn streets.
223—Calvert and Franklin streets.
224—Gay and Mott streets.
448—Biddle and Cathedral streets.
449—D. H. Thomas, residence, 1010 St. Paul street.
538—Bush and Wicomico streets.
574—Garrison and Ridgewood avenues.
576—Maiden Choice Lane and Carroll street.
724—No. 21 Engine Company, Roland avenue.

GROUND WIRES.

All of the "Ground" wires attached to the fire boxes have been renewed, the old wires, in many cases, having corroded off, causing the linemen much delay in locating and clearing trouble.

ALARM CIRCUITS.

The number of alarm circuits have been increased from five to six during the year, whereby an additional all "underground" circuit has been secured. Prior to this change circuit No. 5 was connected with Engine Companies Nos. 8, 10, 14, 15, 20; Truck Companies Nos. 2, 10; Chemical Company No. 1 and Salvage Corps. The only part of this circuit that was underground was from the City Hall to Fremont avenue and Mulberry street on the north and to Pratt street and Fremont avenue on the south. As will be seen, by this arrangement important downtown companies were on the same alarm circuit with companies in the Annex, which circuits, because of their great length and the territory through which they were built, were liable to frequent interruptions. By the re-arrangement of the alarm circuits, Engine Companies Nos. 1, 3, 4, 5, 7, 11, 15 and 16; Truck Companies Nos. 1, 2, 4 and 5; Salvage Corps and Chief Engineer's Office are connected on all "underground" circuits.

MANHOLES.

During the spring months all of the manholes owned by the City were opened and cleaned. Cable hangers and cables were put in proper shape and a thorough test made for electrolysis. This work should be done annually in order to keep the subway in proper condition,

PORTABLE TELEPHONES.

The desirability of establishing communication between the fire ground and Fire-Alarm Office other than by use of side key in the fire box, led me to investigate the possibility of using a telephone on the fire circuits. After some experimenting, I was enabled to exhibit to your Honorable Board an instrument that could be attached to any fire-box in the city and immediate speaking communication established with

the Fire-Alarm Office, which was by the Board adopted and on the 10th day of April placed in service. One of these portable telephones is now carried on the apparatus by each Fire Company, the Chief Engineer, each District Chief and the linemen of the Telegraph Departement.

The telephone is placed in a small box 6 by 8½ inches, provided with the necessary handle to carry, and hooks to fasten to the fire-box. A long cord with a double plug attachment which is fitted into the jacks provided in the fire-box, makes the necessary connection between box and telephone. The regular side key is used to signal the office. This little instrument has proven of great assistance to the Department, and the many uses to which it may be put was illustrated on "Dyer Day," when firemen were placed along the line of parade with the "Portable" attached to the fire-boxes, ready on the instant to convey to the Chief Engineer, who rode at the head of the Fire Department, any information.

SEARCH LIGHT.

The necessity of promptly clearing away interruptions to our circuit at night as well as day, and the difficulties and dangers under which the linemen labored in the darkness, induced me to investigate the possibilities of the search light applied to our uses. The light, to be adopted, must be reasonably cheap, of not too great weight and bulk, of great power and easily manipulated. Such light, after much correspondence with out-of-town manufacturers, etc., I found in this city. Wagon No. 3 of this Department is now equipped with a search light of 1500 candle power, weighing 80 pounds and costing $100.00, which has given perfect satisfaction each time it has been used.

SWITCH BOARD.

The drop signals on the switch board, which have been out of service for a long time, have been remodelled and are now in perfect working order. This is a very desirable addition to our machinery, as they indicate upon which circuit an alarm of fire is coming in, and also whenever a circuit gets into trouble.

NEW REPEATER.

Shortly after the new four dial repeater went into service it was discovered that it would be impossible to send out special calls for truck or Chemical Companies 9 and 10, for the reason that the numbers on the third plate on each dial did not exceed "9." I at once communicated with the Gamewell Fire-Alarm Telegraph Company, who found that the defect could be remedied without taking the repeater out of service. By authority of the Board of Fire Commissioners, the necessary changes were made and we are now in position to send out promptly and properly any signal required.

ELECTROLYSIS.

During the year we were compelled to replace 1082 feet of cable which had become defective owing to the effects of electrolysis. Of this, 322 feet were replaced on Barre street, from Eutaw street to Little Greene street; 600 feet on Greene street, from Portland Street to Little Paca street; 70 feet from North and Lexington streets to Central Police Station, and 90 feet from Eutaw and Lombard streets to Power House. Investigation revealed that none of these cables had been properly protected by bonding, and, to guard against similar damages in the future, I have had bonded with No. 00 copper wire all cables south of Camden and Sharp streets to Barre and Fremont avenue; west from Eutaw and Camden streets to Paca and Little Greene streets; east from Canton avenue and Caroline street to Cambridge and Windsor streets, and north from St. Paul and Madison streets to Mt. Royal avenue and Charles street, and I feel reasonably sure we need fear no further trouble from this source.

RECOMMENDATIONS.

I most respectfully renew the recommendations made in my last report—that is, that a branch telephone exchange be established, and that the telephones be separated from the independent circuits; that the operators necessary to operate the switch board and one additional lineman be added to the force.

EMPLOYEES.

William F. Gettrust,	Operator.
J. J. McCoy,	"
C. C. Prince,	"
W. E. Shuter,	"
S. E. Smith,	"
J. N. Smith,	Chief Lineman.
J. W. Anderson,	Assistant Lineman.
T. W. Glass,	" "
R. Kain,	" "
N. C. Wolfe,	" "

In conclusion, I desire to tender my thanks to the Board of Fire Commissioners for their invariable kindness and support, to the Chief Engineer for his co-operation, to the employees of this Department for the faithful performance of duty, and to the Police Department for their cordial assistance.

Respectfully submitted,

F. G. Boyd,
Superintendent.

Fire Record.

1899.

RECORD OF FIRES AND ALARMS FOR THE YEAR ENDING DECEMBER 31, 1899.

DATE.	BOX.	A.M.	P.M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SER'CE.	BUILDING.	REMARKS.
January.										
Sunday 1	191	2.45	.....	.....	.....	.....	.....	.....	.....	Loss, none. Recall 2.55 a. m.; false alarm
Sunday 1	Si-l't	9.17	.....	Patterson ave., between Vincent and Mount sts.	Penna. R. R. Co.	Opening of tunnel.	.....	.....	.....	Unknown.
Sunday 1	366	9.17	.....	1710 McCulloh st.	N. C. Snyder.	Dwelling.	.....	4	Three-story brick.	Burning of chimney. Recall 9.39 a. m.
Sunday 1	73	.....	6.13	West side of Harford road, near city line.	Harry F. Campbell.	Stable.	19 and 4,5, 6 Chem.	7	Two-story stone.	Loss, $1,860.08. Recall 10.52 p. m.; coal from stove.
Sunday 1	531	.....	8.17	685 Columbia ave.	F. P. Shulte.	Drug store and dwelling.	10	2	Three-story brick.	Loss, $50. Recall 8.32 p. m.; overheated furnace pipe.
Sunday 1	Si-l't	.....	9.26	909 N. Fremont ave	G. W. Crockett.	Dwelling.	13	.....	Three-story brick.	Loss, $66.37. Heat from steam pipe.
Sunday 1	319	.....	10.24	910 N. Charles st.	David Gordon.	Dwelling.	.....	4	Three-story brick and Mansard.	Loss, none. Recall 11.58 p. m.; burning chimney.
Monday 2	426	9.22	.....	1034 W. Fayette st	Mrs Alice Garrity.	Dwelling.	.....	.....	Three-story brick.	Loss, $24.00. Recall 9.35 p. m.; thawing water pipe.
Monday 2	Si-l't	10.36	.....	141 S. Central ave.	Wm. Brousherue	Dwelling.	3	.....	Three-story brick.	Loss, $97.85. Defective flue.

Monday	2	Si-l't	.....	6.40	38 Loudon ave.	Frederick Sella	Dwelling.	..	.....	.....	Two-story brick.	Loss,$23.45. Lighted candle ignited Christmas tree.
Tuesday	3	395	.....	6.45	320 Falls road.	Dr. R. B. Norment.	Dwelling.	21		9	Two-story frame.	Loss, $149.50. Recall 7.21 p. m.; lighted candle ignited Christmas tree.
Tuesday	3	Si-l't	.....	7.35	2205 Eastern ave.	Mary Sinner.	Dwelling.	.....	.....	.....	Three story brick.	Smoke over roof.
Tuesday	3	621	.....	8.30	414 Grindall st.	James Crawford.	Dwelling.	12		6	Two-story brick.	Loss, $85.76. Recall 9.21 p. m.; careless handling of matches.
Tuesday	3	381	.....	9 38	.....	.....	Dwelling.	.....	.....	.....	.....	Loss, none. Recall 9.45 a. m.; false alarm.
Tuesday	3	Si-l't	.....	12.42	705 St Paul st.	J. Chas. Linthicum.	Dwelling.	4		.....	Three-story brick.	Loss, none. Burning of chimney.
Tuesday	3	Si-l't	.....	5.20	100 W. Barre st.	Mary L. Redwood.	Dwelling.	2		.....	Three-story brick.	Loss, none. Burning of rags in chimney.
Wedn'y	4	218	12.31	.....	910 E. Baltimore st.	Max Romm.	Confection'y, dry goods store and dwelling house.	3		1	Three-story brick.	Loss, $926.58. Recall 12.54 a. m.; unknown.
Wedn'y	4	Spc'l	.....	5.00	511 N. Central ave.	Geo. W. Burke.	Dwelling.	.....	.....	.....	Two story and attick brick.	Loss,none; defective flue.
Wedn'y	4	155	.....	5.40	211 S. Caroline st.	Ernest Baggi.	Dwelling.	.....	.....	.....	Two-story and attic brick.	Loss, $25 00. Recall 5 53 p m.; heat from stove.
Wedn'y	4	Si-l't	.....	5.48	1324 Aisquith st.	Eliza Harrington	Dwelling.	.....	.....	5	Three-story brick.	Loss, $11.50. Coal oil heater igniting.

DATE.	BOX.	A. M.	P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Thurs'y	5 165	12.42	.....	15 S. Broadway.	Frederick Goodhughes.	Dwelling.	.....	3	Three-story brick.	Loss, $108.50. Recall 1.10 a. m; careless handling of matches.
Thurs'y	5 428	6.40	.....	326 N. Schroeder street.	C. D. Rufer.	Dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 6.50 a. m.; explosion of coal-oil stove.
Thurs'y	5 266	9.30	.....	513 N. Central ave	Third Ward Rep. Club (col.).	Club-house.	.....	5	Two story and attic brick.	Loss, none. Recall 9.49 a. m.; house filled with smoke.
Thurs'y	5 168	.....	3.02	1826 Aliceanna st.	S. Jednoalsky.	Grocery store and tenement.	5	3	Three-story brick.	Loss, $22.50. Recall 3.22 p. m.; firecrackers igniting can of gasoline.
Thurs'y	5 392	.....	8.02	847 Remington pl.	Henry C. Butler (col.).	Dwelling.	.....	11	Three-story brick.	Loss, $115.00. Recall 8.35 p. m.; explosion of coal-oil lamp.
Thurs'y	5 23	.....	9.29	1239 Jackson st.	Benjamin Stern.	Dwelling.	3	.....	Two story and attic brick.	Loss, $86.75. Recall 9.40 p. m.; careless handling of matches.
Satur'y	7 425	2.56	.....	928 W. Balimore street.	Ernest Weis.	Green House.	8	2	Glass and frame one story.	Loss, $20.00. Recall 3.19 a. m.; overheated furnace.

Satur'y	7	Spc'l	.....	12.30	1033 Wagon alley.	Luther Wright.	Dwelling.	.....	.....	Two-story brick.	Loss, $5.00. Children playing with matches.
Satur'y	7	351	.....	2.40	1123 Eutaw street.	William March.	Dwelling.	.....	.....	Three-story brick.	Loss, $117.70. Recall 2.55 p. m.; upsetting of coal-oil stove.
Satur'y	7	163	.....	8.47	2023 E. Baltimore street.	John W. Nical.	Dwelling.	.....	3	Three-story brick.	Loss, $276.50. Recall 9.07 p. m.; heat from register.
Satur'y	7	453	.....	9.44	1308 Lanvale st.	Fred'k N. Torer.	Dwelling.	.....	.....	Three-story brick.	Loss, $15.00. Recall 9.54 p. m.; careless handling of matches.
Satur'y	7	Si-l't	.....	10.45	1424 Richardson st	Robert Moxwell	Dwelling.	17	.....	Two-story brick.	Loss, $25.00. Explosion of coal-oil lamp.
Sunday	8	Si-l't	.....	10.00	Patterson ave., bet. Mount & Vincent streets.	Penna. R. R. Co.	Lot around open tunnel.	.....	.....	.....	Sparks from locomotive.
Monday	9	442	10.42	.....	646 Vine street.	Purnell Costin.	Dwelling.	1, 8, 10	2.....	Two-story brick.	Loss, $295.00. Recall 11.44 a. m. Cause of fire unknown.
Monday	9	427	.....	5.56	202 Pearl st.	J. Heagey.	Dwelling.	1	.....	Three-story brick.	Loss $28.75. Recall 6.11 p. m. Sparks from chimney.
Monday	9	312	.....	7.40	310 Park avenue.	Mrs. Gertrude Bram.	Grocery store & dwelling.	.....	.....	Two-story and attic brick.	Loss $44.25. Recall 7:52 p. m. Lighted gas jet ignited curtains.
Monday	9	381	.....	7.58	1380 N. Calhoun st	Bartholomew Kelly.	Dwelling.	13	.....	Three-story brick.	Loss $72.00. Recall 8.16 p. m.; man throwing lighted lamp at woman.

DATE.	BOX.	A.M.	P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Monday 9	Si-l't.	.....	8.18	1343 N. Fremont st	Geo. Hernritz.	Store and dwelling.	.....	.....	Three-story brick.	Loss $55.00. Defective coal-oil stove.
Monday 9	Si-l't.	.....	10.10	1013 E. Pratt st.	Mayer Seigle and others.	Grocery store and dwell'g	3	.....	Three-story brick.	Loss $22.60; heat from lamp.
Monday 9	Sp c'l.	.....	10.30	8 E. Montgomery street.	Daniel Weber.	Dwelling.	....	.....	Two-story brick.	Loss $22.00; lighted gas jet ignited curtains.
Tuesd'y 10	524	1.20	.....	404 S. Charles st.	Riverside Supply and Bakery Co.	Bakery.	2, 4, 12 and 15.	2, 6.	Two and four-story brick.	Loss $812.84. Recall 1.36 a. m.; overheated bake oven.
Tuesd'y 10	312	.....	12.54	321 Park avenue.	Mrs. Kate Bush.	Dwelling.	.....	2	Two-story brick.	Loss none. Recall 1.12 a. m.; heat from chimney.
Tuesd'y 10	396	.....	5.45	N. C. R. R., north of Union ave.	Wm. E. Hooper.	Cotton mill.	21	9	Two-story stone.	Loss $726.25. Recall 7.58 p. m.; unknown.
Tues'y 10	159	.....	7.04	632 S. Broadway.	Morris N. Hautman and others.	Cigar store and tenement.	3, 5	3	Three-story brick.	Loss $36.50. Recall 7.32 p. m; hot ashes.
Tues'y 10	389	.....	8.50	.....	.....	.....	.....	.....	.....	Recall 9.10 p. m. Light in second story thought was fire.
Tues'y 10	Si-l't	.....	1.46	746 Frederick ave.	Henry Shioer.	Dwelling.	1 Chem.	8	Two-story frame.	Loss $36.50. Defective flue.

Wedn'y	11	231	.....	2.10	N. W. corner Bond and Jefferson sts	Baltimore City.	Male & Female Grammar School.	6, 9		3	Two-story brick.	Loss $200. Recall 2.50 p. m.; defective flue.
Wedn'y	11	436	.....	4.56	427 and 429 West German street.	Brigham Hopkins & Co.	Straw hat factory.	15		2	Six-story brick.	Loss, none. Recall 5.34 p. m.; explosion of gasoline tank.
Wedn'y	11	Spc'l	.....	4.30	866 Columbia ave.	John P. Kleber	Dwelling.	.....	.....	.....	Three-story brick.	Loss $35.50; overheated stove.
Wedn'y	11	264	.....	5.28	1500 E. Monument street.	William Disverraux.	Dwelling.	9		5	Three-story brick.	Loss, $337.50. Recall 5.45 p. m.; goods ignited by lighted gas jet.
Thurs'y	12	Si-l't	.....	2.55	4 Brunswick st.	Lena Heil.	Dwelling.	1 Chem.		8	Three-story frame	Loss, $39.75. explosion gasoline stove.
Friday	13	526	8.45	.....	301 Hanover street	James V. Stewart and Company.	Drugstore and dwelling.	2, 4		2	Three-story brick.	Loss, $535.76. Recall 9.19 a. m.; defective hot air pipe.
Friday	13	31	11.10	.....	334 St. Paul st.	John Powers and others.	Grocery store and dwelling.	.....	.....	.....	Four-story brick and attic.	Loss, $27.84. Recall 11.21 a. m.; explosion of coal-oil stove.
Friday	13	324	.....	5.10	548 Oxford street.	Lewis Wingate.	Grocery store and dwelling.	7		4	Three-story brick.	Loss, $45.75. Recall 5.28 p. m.; upsetting of a coal-oil stove.
Satur'y	14	Si-l't	10.15	.....	1024 N. Mount st.	B. Griffin.	Dwelling.	.....		10	Three-story brick.	Loss, none; burning chimney.
Sunday	15	493	11.15	.....	2811 Rayner ave.	Unoccupied.	Dwelling.	20 and 3 Chem.		8	Three-story brick.	Loss, none. Recall 12.05 p. m.; cause unknown.

DATE.	BOX.	A. M.	A. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERVICE	BUILDING.	REMARKS.
Mond'y 16	Si-l'	10.35	.....	1 W. Biddle street	Dr. N. R. Gorter	Dwelling.	.....	4	Three-and-a-half-story stone.	Loss, none; burning chimney.
Mond'y 16	424	.....	7.31	796 Waesche st.	Helen Best.	Dwelling.	.....	2	Three-and-a-half-story brick.	Loss, $15.00. Recall 7.44 p. m.; overheated stove.
Tues'y 17	Si-l't	8.00	.....	307 Harrison st.	Max Merlinsky.	Tenement.	.....	1	Three-and-a-half-story brick.	Loss, none; clothing ignited from oil-stove.
Tues'y 17	381	9.15	.....	1604 Baker street.	Felix Cordroy.	Dwelling.	13 and 2 Chem.	10	Three-story brick.	Loss, $173.50. Recall 10.08 a. m.; defective flue.
Tues'y 17	38	10.22	.....	516 Gold street.	Elsworth Sorrel.	Dwelling.	13 and 2 Chem.	10	Two-story brick.	Loss, $107.54. Recall 10.52 a. m.; cause unknown.
Tues'y 17	479	10.42	.....	1612 N. Fulton ave.	Adam Burcker.	Dwelling.	.....	.....	Two-story brick.	Loss, $40.00. Recall 11.00 a. m.; man smoking pipe on lounge.
Tues'y 17	4	.....	8.34	18 S. Calvert st.	Charles W. Callaghan.	Hotel and restaurant.	.....	.....	Four-story brick.	Loss, none. Recall 8.41 p. m.; over pressure of steam.
Tues'y 17	639	.....	9.13	23 Pier, Locust P't, B. & O. R. R. Co.	Capt. Jas. Harland, D. B. Hart & Co. owners.	Steamship Rumsdalen	16	6	.....	Loss, none. Recall 10.12 p. m.; cause unknown.
Tues'y 17	519	.....	10.15	S. E. cor. Russel and West sts.	N. Pfeil & Co.	Cooper shop.	2, 10, 15.	2	One-story brick.	Loss, $1,423.88. Recall 11.45 p. m.; cause unknown.

Tues'y 17	535	.....	10.51	1103 S. Carey st.	Louis Berg and John Butrous.	Dwelling.	8, 14.	6	Two-story brick.	Loss, $688.01. Recall 12.01 p. m.; hot coals.
Tues'y 17	31	.....	11.59	417 N. Calvert st.	John W. Adams.	Provision store.	4.	.....	Three-story brick.	Loss, none. Recall 12.12 a. m.; electric wire.
Wedn'y 18	365	6.12	.....	939 Pear street.	Zachariah Small	Dwelling.	.....	4	Three-story brick.	Loss, $10.00. Recall 6.27 a. m.; cause unknown.
Wedn'y 18	232	.....	1.51	43 N. Eden street.	Unoccupied.	Dwelling.	6	3	Three-story brick.	Loss, none. Recall 2.09 p. m.; set on fire by boys.
Wedn'y 18	24	.....	6.21	229½ Chestnut st.	Jno. H. Rewning	Planing mill.	.....	.....	Three-story brick.	Loss, none. Recall 6.30 p. m.; reflection from stove.
Wedn'y 18	Si-l't.	.....	6.19	855 Columbia ave.	James Kensella.	Dwelling.	10	.....	Three-story brick.	Loss $17.12; gasoline ignited by heat from stove.
Wedn'y 18	Spcl'.	.....	8.20	1301 May street.	Unoccupied.	Dwelling.	.....	.....	Two-story brick and attic.	Loss, none; set on fire by boys.
Thurs'y 19	315	.....	12.15	704 Cathedral st.	John E. Hurst.	Dwelling.	.....	4	Four-story and attic, brick.	Loss, none. Recall 12.39 p. m.; burning chimney.
Thurs'y 19	532	.....	2.39	315 W. Lee street.	J. S. Simson and others.	Dwelling.	2, 10, 15,	6	Two and three-story brick.	Loss $151.60. Recall 2.46 p. m.; Defective flue.
Thurs'y 19	38	.....	5.18	1543 Woodyear st.	May Downs.	Dwelling.	.....	10	Two-story brick.	Loss $42.00. Recall 5.44 p. m.; overheated stove.
Thurs'y 19	741	.....	6.17	708 Gorsuch ave.	Samuel Green.	Dwelling.	4 Chem.	.....	Two-story frame.	Loss $197.50. Recall 6.44 p. m.; children playing with matches.

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Thurs'y 19	484	.....	7.25	North of Font Hill avenue.	House of Refuge	House of Refuge.	8, 14 and 1 Chem.	8	Four-story stone.	Loss $1,400. Recall 11.03 p. m.; cause unknown.
Thurs'y 19	Si-l't	.....	11.44	Monument st.	Frank Albert.	Hotel.	7	.....	Five-story stone.	Loss, $50.00; open grate fire.
Friday 20	425	.....	12.49	889 W. Fayette st.	F. E. Getz.	Dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 12.58 p. m.; gas stove igniting paper.
Friday 20	381	.....	7.12	1715 Presstman st.	Albert Edlen.	Dwelling.	13	10	Two-story brick.	Loss, $52.50. Recall 7.35 p. m.; explosion of coal-oil lamp.
Friday 20	419	.....	7.46	401 W. Saratoga st.	August Krebs.	Dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 7.55 p. m.; lighted match igniting bagging.
Friday 20	416	.....	8.17	505 W. German st.	Edward Sanna.	Furnished room house.	1	2	Three-story brick.	Loss, $29.45. Recall 8 35 p. m.; cause unknown.
Friday 20	512	.....	10.52	8 Uhlers alley.	Southern Manufactory Co.	Manufactory.	15	.....	Three-story brick.	Loss, none. Recall 11.05 p. m.; cause unknown.
Satur'y 21	492	10.44	.....	2598 W. Fayette st.	Joseph C. Franklin.	Dwelling.	14	10	Two-story brick.	Loss, $12.00. Recall 11.20 a. m.; defective flue.

Satur'y 21	Si-l't	.....	5.30	2227 Gough st.	John H. Ruhl.	Dwelling.	11	.....	Two-story brick.	Loss, $28.50; heat from stove.
Satur'y 21	Si-l't	.....	7.57	821 E. Baltimore st.	Adolph Sauber.	Dwelling.	.....	.....	Three-story brick.	Loss, none; defective chimney.
Satur'y 21	336	.....	1.56	327 Tyson alley.	Mrs. Susan Brown	Dwelling.	7	2	Two-story brick.	Loss, $15.00. Recall 2.15 p. m.; cause unknown.
Satur'y 21	183	.....	8.03	1001 Harris alley.	Henry Southerd.	Dwelling.	.....	.....	Two-story brick.	Loss, $30.00. Recall 8.13 p. m.; coal-oil lamp thrown in a fight.
Satur'y 21	Si-l't	.....	8.35	1320 Harford ave.	Louis Gordon.	Manure pit.	.....	5	.....	Loss, none; hot ashes.
Sunday 22	436	1.26	.....	415 King st.	Rebecca Phillips	Dwelling.	.....	.....	Two-and-a-half-story brick.	Loss, $15.00. Recall 1.36 a. m.; bed-clothing ignited by cigarette.
Sunday 22	156	.....	7.36	1627 Thames st.	Michael Bennett	Tenement.	5	3	Two-and-a-half-story brick.	Loss, $74.75. Recall 8.07 p. m.; burning soot.
Sunday 22	Si-l't	.....	7.01	Monroe-st. Bridge.	B. & O. R. R. Co.	Storage-house	10	.....	One-story frame.	Loss, $60.00; cause unknown.
Sunday 22	Spc'l	.....	8.25	541 N. Exeter st.	J. F. Hogan.	Blacksmith shop.	.....	.....	One-story brick.	Loss, none; cause unknown.
Mond'y 23	159	11.18	.....	514 S. Regester st.	Kate Clinsky and others.	Tenement.	5	3	Three-story brick.	Loss, $20.00. Recall 11.51 a. m.; children playing with fire.
Mond'y 23	143	.....	3.14	1060 and 1062 Granby st.	Louis Knoche.	Stable.	3, 5, 6	3	Two-story brick.	Loss, $312.25. Recall 4.07 p. m.; cause unknown.
Mond'y 23	Si-l't	1.50	.....	416 Colvin street.	Harry M. Boxing	Dwelling.	6	.....	Three-story brick.	Loss, $166.90. Cause unknown.

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Mond'y 23	Si-l't	.....	7.35	910 N. Gilmor st.	S. Morrison.	Dwelling.	.....	10	Three-story brick.	Loss, $72.50. Cause unknown.
Mond'y 23	262	.....	5.20	1030 N. Gay street.	Frederick Beck.	Shed.	9, 19 and 6 Chem.	5	One-story frame.	Loss, $643.36. Recall 6.03 p. m; cause unknown.
Mond'y 23	262	.....	.....	1032 N. Gay street.	Jos. Schneider.	Fencing.	.....	.....	.....	.....
Mond'y 23	262	.....	.....	1028 N. Gay street.	Thos. W. Blades.	Out-house and fencing.	.....	.....	.....	.....
Mond'y 23	.....	.....	.....	1607 E. Chase st.	Jno. E. Williams	Fencing.	.....	.....	.....	.....
Mond'y 23	.....	.....	.....	1605 E. Chase st.	Harry Reynolds	Fencing.	.....	.....	.....	.....
Mond'y 23	.....	.....	.....	1609 E. Chase st.	Elizab'h Gremm	Fencing.	.....	.....	.....	.....
Tuesd'y 24	477	.....	7.14	627 Kirby Lane.	Barney Trunnell	Dwelling.	.....	10	Two-story brick.	Loss, $20.00. Recall 7.29 p. m.; upsetting lighted coal-oil lamp.
Tuesd'y 24	Si-l't	5.25	.....	1133 Pinkney Place	John F. Danninger.	Grocery store and dwelli'g	10	.....	Two-story brick.	Loss, $5.00. Leaking gasoline stove.
Wedn'y 25	143	10.32	.....	131 S. Spring st.	Israel Lipsitz.	Tenement.	.....	.....	Three-story brick.	Loss, none. Recall 10.42 a. m.; sparks from stove.
Wedn'y 25	471	11.48	.....	314 N. Fulton ave.	R. S. Jones.	Dwelling.	14	10	Three-story brick.	Loss, $196.76. Recall 12.12 p. m.; cause unknown.
Wedn'y 25	363	.....	7.35	506 Brune street.	E. T. Bryan.	Dwelling.	8, 13	4	Two and half story brick.	Loss, $187.54. Recall 8.20 p. m.; explosion of coal-oil lamp.

Thurs'y	26	291	.....	2.37	2602 and 2604 York Road.	Albert W. Ruhl.	Manufacture yeast powd'r and dwelling	18, 19	5, 7, 11	Two-story and attic frame.	Loss, $2,778.01. Recall 5.20 p. m.; cause unknown.
Thurs'y	26	2d a'm 291	.....	2.47	.....	.....	.....	4, 5, and 6 Chem.	.....	.....	.....
Friday	27	165	7.29	.....	1616 E. Baltimore street.	Is'c Krulowitsch	Dwelling.	3, 5	3	Three-story brick.	Loss, $457.15. Recall 8.00 a. m.; cause unknown.
Friday	27	Si-l't	8.14	.....	1440 Harford ave.	John Sadder.	Dwelling.	.....	.....	Three-story brick.	Loss, none. Leaking gasoline tank.
Friday	27	373	.....	1.03	1832 Penna. ave.	George Blessing	Store & dwelling.	13	10	Three-story brick.	Loss, $165.25. Recall 1.28 p. m.; defective flue.
Friday	27	Si-l't	.....	7.20	419 Mott st.	Elizabeth Furgerson.	Dwelling.	6	.....	Two story and attic brick.	Loss, $50.00. Explosion of coal-oil stove.
Friday	27	418	.....	7.47	326 W. Lexington street.	Wm. M. Hurmle	Trunk factory and dwelling	1, 4, 7, 15	1, 2	Five-story brick.	Loss, $1,139.81. Recall 9.06 p. m.; cause unknown.
Friday	27	177	.....	8.14	4 Bradford street	Charles Skuhr.	Dwelling.	.....	.....	Two-story brick.	Loss none. Recall 8.22 p.m.; upsetting of coal-oil stove.
Friday	27	344	.....	9.18	126 W. Franklin st.	J. Swann Frick.	Dwelling.	7	4	Four-story brick.	Loss $48.00. Recall 10.14 p. m.; burning chimney.
Friday	27	Si-l't	.....	10.26	1137 W. Baltimore street.	Wm. Nicklas.	Jewelry store and dwelling.	.....	.....	Three-story brick.	Loss none. Burning chimney.
Satur'y	28	72	.....	1.09	113 East Huntingdon avenue.	Mrs. Chas. Callaghan.	Dwelling.	.....	.....	Three-story brick.	Loss none. Recall 1.15 p. m.; back draft.
Satur'y	28	Si-l't	.....	12.25	1845 W. Lombard street.	R. V. Gray.	Dwelling.	14	.....	Three-story brick.	Loss $43.50; defective flue.

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Satur'y 28	Si l't.	.....	6.57	214 and 216 West Lee street.	Aged Men and Women's, Home, Washington M. E. (Col.)	Home.	2	.....	Two-and-a-half story brick.	Loss $10.00. Overheated stove.
Sunday 29	358	12.03	.....	1201 Guilford ave.	Chas. F. Krok and Mrs. Wm. Laragg.	Grocery store and dwelling.	7, 18	5	Three-story brick.	Loss $298.14. Recall 1.21 a. m.; unknown.
Sunday 29	479	12.42	.....	1845 N. Fulton av.	Jno. M. Rodgers.	Pigeon house.	13, 20	10	One-story frame.	Loss $25.00. Recall 1.20 a. m.; unknown.
Sunday 29	39	12.51	.....	.....	.....	.....	.....	.....	.....	Recall 1.04 a.m.; box pulled for preceding fire.
Sunday 29	372	9.51	.....	1151 Whatcoat st.	Edward Frazier.	Dwelling.	.....	.....	Two-story brick.	Loss $13.25. Recall 10.02 a. m.; children playing with matches.
Sunday 29	65	10.13	.....	1750 Clarkson st.	Robert Cathell.	Dwelling.	.....	.....	Two-story brick.	Loss $25.00. Recall 10.21 a. m.; explosion of gasoline stove.
Mond'y 30	268	.....	10.30	N. W. corner Eden and Federal sts.	City.	Male and Female Grammar School No. 20.	.....	.....	Two-story brick.	Loss none. Recall 10.39 p. m.; reflection of light.
Mond'y 30	Si-l't.	.....	10.52	104 W. Baltimore street.	Manager Thos. E. Thompson.	Lunch room.	.....	.....	Four-story brick.	Loss $15.00. Unknown.

Tuesd'y 31	393	12.44	.....	910 Second ave.	Wm. E. Cross.	Dwelling.	21	.....	Three-story brick.	Loss none. Recall 1.10 a. m.; burning chimney.
Tuesd'y 31	441	2.09	.....	N. E. cor. Charles and Fayette st.	Unoccupied.	Massachusetts Office Bldg.	4	2	Eleven-story stone and iron.	Loss none. Recall 2.58 a. m.; overheated gravel pan.
Tuesd'y 31	61	.....	1.46	717, 719 and 721 Brannan's ct.	Owned by Eliza Brannan.	Out-houses.	2	6	One-story frame.	Loss $3.25. Recall 1.56 p. m.; unknown.
Tuesd'y 31	Si-l't.	11.50	.....	238 N. Pearl st.	John Vorhooly.	Shoe store and dwelling.	.....	.....	Three-story brick.	Loss none. Burning chimney.
Tuesd'y 31	Si-l't.	.....	1.10	707 Little Monument st.	Emma Neuman.	.....	.....	4	Two-story-brick.	Loss none. Badly constructed hearth
February										
Wedn'y 1	535	.....	12.58	Carroll switch.	Burns & Russell	Stable.	10	6	One-story frame.	Loss, $50.00. Recall 1.36 p. m.; unknown.
Wedn'y 1	348	.....	1.01	1611 Latrobe street	Charles Welch.	Dwelling.	18	11	Two-story brick.	Loss, $124.05. Recall 1.45 p. m.; unknown.
Wedn'y 1	4	.....	2.14	117 Bank lane.	Thomas J. Dowling.	Printing office	.....	.....	Four-story brick.	Loss, none. Recall 2.24 p. m.; explosion of can of benzine.
Wedn'y 1	352	.....	2.45	1322 Eutaw Place.	Vivian Neall.	Dwelling.	.....	.....	Three-story brick.	Loss, $42.00. Recall 3.07 p. m.; lighted gas jet ignited curtains.
Wedn'y 1	467	.....	4.31	Massachusetts ave west of Irvington.	Louis Saunders.	Dwelling.	14, Chem. 1	8	Three-story frame	Loss, $2,355.00. Recall 8.49 p. m.; defective flue.
Wedn'y 1	287	.....	4.48	2625 Boone street.	Mrs. Sarah Green	Dwelling.	.....	.....	Three-story frame	Loss, none. Recall 4.53 p. m.; house full of smoke.

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Wedn'y 1	461	.....	5.08	300 S. Gilmor st.	George Mantke.	Saloon and dwelling.	8	10	Three-story frame	Loss, $146.30. Recall 5.38 p. m.; overheated stove pipe.
Wedn'y 1	381	.....	7.40	1601 Lorman st.	Jesse Anderson.	Dwelling.	.....	10	Two-story brick.	Loss, $42.45. Recall 8.02 p. m.; explosion of coal-oil stove.
Wedn'y 1	273	.....	9.30	1846 N. Gay st.	Charles Bearn.	Dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 9.39 p. m.; reflection of burning wood of open fire.
Wedn'y 1	Si-l't	.....	6.30	111 E. Hamburg street.	Wm. Harrison.	Dwelling.	.....	6	Two-story brick.	Loss, none. Defective flue.
Wedn'y 1	Si-l't	.....	9.50	505 Parrish alley.	John Booze.	Dwelling.	8	.....	Two-story brick.	Loss, none. Explosion of coal-oil lamp.
Thurs'y 2	Si-l't	10.49	.....	1204 N. Charles st.	William J. Wilkinson.	Dwelling.	.....	.....	Four-story stone.	Loss, $69.00. Burning chimney.
Thurs'y 2	526	11.27	.....	122 W. Camden st.	Mrs. J. Ludolf.	China store and dwelling	2	2	Three-story brick.	Loss, $54.46. Recall 11.37 p. m.; overheated stove.
Thurs'y 2	526	.....	1.14	213 S. Sharp st.	Myer Coplin.	Tailor shop and dwelling	2, 15	2	Four-story brick.	Loss, $302.15. Recall 1.30 p. m.; defective flue.
Friday 3	Si-l't	.....	7.30	2942 Huntingdon avenue.	M. Satteler.	Dwelling.	.....	.....	Two-story brick.	Loss, none. Children playing with matches.

Satur'y	4	295	12.12	.....	2233 N. Calvert st.	Mrs. Wm. Stephens	Board'g-house	.....	11	Three-story brick.	Loss, $9.75. Recall 12.43 a. m.; mice gnawing matches.
Satur'y	4	Si-l't	1.00	.....	1425 Aisquith st.	Geo. W. Miller.	Dwelling.	.....	5	Two-story brick.	Loss, unknown.
Satur'y	4	721	11.08	.....	36 Woodberry ave.	John Bailey.	Dwelling.	.....	.....	Three-story brick.	Loss, $20.00. Recall 11.28 a. m.; overheated coal-oil stove.
Satur'y	4	328	.....	11.35	1528 Division st.	James B. Kelley.	Dwelling.	.....	.....	Three-story brick.	Loss, $108.80. Recall 11.56 p. m.; explosion of coal-oil lamp.
Sunday	5	546	7.09	.....	226 W. Hamburg street.	John L. Becker.	Dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 7.17 a. m.; upsetting of coal-oil stove.
Sunday	5	172	10.09	.....	26 Patterson Park ave.	William Klingshoefer.	Dwelling.	11	.....	Three-story brick.	Loss, $237.50. Recall 10.30 a. m.; defective coal-oil stove.
Sunday	5	362	.....	8.29	650 W. Franklin street.	Miss B. Duncan.	Dwelling.	.....	4	Three-story brick.	Loss, $84.25. Recall 8.45 p. m.; defective coal-oil heating stove.
Sunday	5	Si-l't	.....	4.20	830 W. Baltimore street.	Juan B.Garzelez.	Dwelling.	1	.....	Three story brick.	Loss, $75.00. Defective flue.
Monday	6	531	5.46	.....	712 Columbia ave.	Sophia Renner.	Furn're store and dwelling.	10	.....	Three-story brick.	Loss, $40.00. Recall 5.58 a. m.; overflowing of oil from stove.
Monday	6	62	9.27	.....	1110 Elizabeth lane.	M. Himmel.	Dwelling.	2	.....	Three-story brick.	Loss, $10.00. Recall 9.32 a. m.; unknown.

DATE.	BOX.	A.M.	P.M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE.	BUILDING.	REMARKS.
Mond'y 6	Si-l't	.....	7.50	27 E. Lee street.	Mary Williams.	Dwelling.	2	.....	Three-story brick.	Loss, $22.00; unknown.
Tuesd'y 7	562	.....	6.44	1419 Clarkson st.	John Fritz.	Dwelling.	12	6	Two-story brick.	Loss, $161.20. Recall 7.22 p. m.; unknown.
Mond'y 6	Sp c'l	.....	10.30	Mt. Royal and Maryland aves.	.....	Music Hall.	.....	.....	Two-story brick.	Loss, none. Upset pot of red fire.
Wedn'y 8	232	.....	4.56	128 N. Bond st.	William Van Horn.	Dwelling.	3, 6, 9	1	Three-story brick.	Loss, $188.50. Recall 5.21 p. m.; unknown.
Wedn'y 8	Si-l't	.....	11.39	872 Columbia ave.	Annie Fisher.	Dwelling.	10	.....	Three-story brick.	Loss, none; burning chimney.
Thurs'y 9	43	1.51	.....	111 Penn street.	John F. Pierce.	Saloon and dwelling.	1, 15	2	Three-story brick.	Loss, $650.57. Recall 2.30 a. m.; unknown.
Thurs'y 9	316	8.10	.....	602 N. Calvert st.	Annie Alphine.	Dwelling.	4, 6, 7	1	Three-story brick and attic.	Loss, $254.40. Recall 8.55 a. m.; defective flue.
Thurs'y 9	381	.....	5.30	1345 N. Gilmor st.	David B. Tingle.	Dwelling.	.....	10	Three-story brick and attic.	Loss, none. Recall 5.56 p. m.; burning chimney.
Thurs'y 9	Si l't	10.30	.....	1622 W. Lanvale street.	Mrs. F. Callahan	Dwelling.	.....	10	Three-story brick.	Loss, none. Burning chimney.
Thurs'y 9	331	.....	8.09	23 W. Franklin st.	Mrs. Richard McSherry.	Dwelling.	.....	2	Three-story brick.	Loss, none. Recall 8.41 p. m.; burning chimney.

Thurs'y	9	54	.....	8.22	218 W. Hill st.	Richard Tanker.	Dwelling.	.....	6	Three-story brick.	Loss, $37.00. Recall 8.35 p. m.; unknown.
Thurs'y	9	62	.....	8.40	1120 Light st.	John Reiser.	Confectionery store and dwelling.	17	.....	Three-story brick.	Loss, $52.00. Recall 8.55 p. m.; upsetting of a coal-oil heater.
Thurs'y	9	Si-l't	.....	5.00	502 S. Sharp st.	James Bias.	Kitchen.	2	.....	One-story frame.	Loss, none; thawing ice by fire.
Thurs'y	9	Si-l't	.....	10.42	125 Mt. Royal ave.	Miss Mary F. Manly.	Dwelling.	18	.....	Three-story brick.	Loss, $48.90; defective flue.
Friday	10	Si-l't	6.12	.....	Spedden's Wharf.	E. M. Hoffman.	Steam Tug Maud.	16	.....	.....	Loss, $280.00; unknown.
Friday	10	328	6.33	.....	S. E. Cor. Lafayette and Druid Hill aves.	Home of the Friendless.	Orphan Asylum.	7, 13	.....	Five-story brick.	Loss, $76.04. Recall 7.05 a. m.; explosion of water-back in range.
Friday	10	262	9.38	.....	1014 McDonogh st.	John L. Garrett.	Dwelling.	9	.....	Three-story brick.	Loss, none. Recall 9.50 a. m.; explosion of a water-back.
Friday	10	313	10.10	.....	419 N. Charles st.	Beauchamp & Co., agents for dress goods	Dwelling.	.....	4	Three-story and attic brick.	Loss, none. Recall 10.36 a. m.; burning chimney.
Friday	10	61	.....	4.15	4 E. Hill st.	J. Divenny.	Dwelling.	.....	6	Three-story brick.	Loss, $10.00. Recall 4.26 p. m.; thawing water pipe.
Friday	10	366	.....	5.25	1627 Druid Hill ave.	Thomas N. Adams.	.....	.....	4	Three-story brick.	Loss, none. Recall 5.50 p. m.; burning chimney.
Friday	10	419	.....	8.25	N. W. Cor. Lexington and Eutaw streets.	Frank J. Jones & Bro.	Coffee & Tea Store.	.....	2	Three-story brick.	Loss, $68.00. Recall 9.09 p. m.; overheated furnace pipe.

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Friday 10	Si-l't	.....	4.00	211 W. Camden st.	Mary Norris.	Dwelling.	.....	.....	Three-story brick.	Loss, none; cause unknown.
Friday 10	Si-l't	.....	7.50	Centre Market sp. and Baltimore st	Baltimore City.	Market house hall and School of Art.	.....	1	Three-story brick.	Loss, none; heat from stove-pipe.
Friday 10	Si-l't	.....	9.00	704 Druid Hill ave.	Louis Aidt.	Dwelling.	.....	4	Two-story and attic brick.	Loss, none; burning chimney.
Friday 10	Si-l't	.....	3.10	1505 N. Carey st.	Charles Miles.	Dwelling.	2 Chem.	.....	Two-story and attic brick.	Loss, none; thawing water-pipe.
Satur'y 11	34	7.01	.....	1104 N. Charles st.	Mrs. Mary Pope.	Dwelling.	.....	4	Four-story brick.	Loss, $135.00. Recall 7.36 a. m.; badly constructed hearth
Satur'y 11	.....	.....	.....	1106 N. Charles st.	Joseph Jenkins.	Dwelling.	.....	.....	Four-story brick.	.....
Satur'y 11	324	9.28	.....	1023 McCulloh st.	Minnie Louder-shoff.	Dwelling.	.....	4	Three-story brick.	Loss, $25.08. Recall 9.44 a. m.; explosion of water-back.
Satur'y 11	475	10.06	.....	1509 Edmondson ave.	N Schauman.	Dwelling.	8	10	Three-story brick.	Loss, $42.50. Recall 10.27 a. m.; thawing water pipe.
Satur'y 11	37	11.17	.....	1130 Lafayette ave	Dr. I. Fetterhoff.	Dwelling.	13	10	Three-story brick.	Loss, $15.00. Recall 11 34 a. m.; explosion of a furnace.
Satur'y 11	322	.....	12.20	423 New street.	Mrs. Edward West.	Dwelling.	7	4	Three-story brick.	Loss, $215.50. Recall 1.10 p. m.; cause unknown.

Satur'y 11	Si-l't.	.....	1.15	1131 Mulberry st.	Mary Simms.	Dwelling.	8	.....	Three-story brick.	Loss, none. Thawing water-pipe.
Satur'y 11	337	.....	1.30	567 Dolphin street.	Nathan Ross.	Dwelling.	13	.....	Three-story brick.	Loss, $68.90. Recall 1.54 p. m.; children playing with matches.
Satur'y 11	Si-l't.	.....	2.40	235 N. Gilmor st.	J. Fleming.	Dwelling.	.....	10	Three-story brick.	Loss, none. Burning chimney.
Satur'y 11	297	.....	5.59	2109 Guilford ave.	Joseph Dunn.	Dwelling.	.....	11	Three-story brick.	Loss, none. Recall 6.09 p. m.; thawing water-pipe.
Satur'y 11	422	.....	6.29	5 N. Howard st.	J. H. Medairy & Co.	Stationery and book store.	1,2,3,4,5,6,7,8,10.	1,2,4,5	Five-story brick.	Loss, $27,768.56. Recall 9.54 a.m , Sunday, 12th; cause unknown.
Satur'y 11	2d alm	.....	6.44	3 N. Howard st.	Francis Albert & Co.	Hardware store.	13, 17, 18, 19	.....	.....	.....
Satur'y 11	3d alm	.....	7.10	.....	.....	.....	.....	.....	.....	.....
Satur'y 11	Si-l't	.....	9.03	1304 Barclay st.	James Thomas.	Dwelling.	4 Chem.	.....	Two-story frame.	Loss, none. Explosion of gasoline stove.
Satur'y 11	Spc'l	.....	3.45	6 W. Montgomery st.	Nathaniel Gibson.	Dwelling.	.....	.....	Two-and-a-half-story brick.	Loss, $13.00. Overheated stove.
Sunday 12	363	9.56	.....	766 George st.	J. H. Haupt.	Dwelling.	8	4	Three-story brick.	Loss, $70.00. Recall 10.31 a. m.; overheated stove.
Sunday 12	275	.....	2.26	1720 E. Preston st.	Harry Goldman.	Dwelling.	9	.....	Two-story brick.	Loss, $17.00. Recall 3.38 p. m.; overheated range.
Sunday 12	Si-l't	.....	3.25	404 State st.	Chas. Snowden.	Dwelling.	7	.....	Three-story brick.	Loss, none. Burning chimney.
Sunday 12	Si-l't	.....	10.54	N. E. Cor. Watson and Exeter sts.	David Danelzig.	Dwelling.	3	.....	Two-story brick.	Loss, none; unknown.

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Sunday 12	Sl't	.....	11.20	3107 W. North ave.	Robert H. Gambrill.	Dwelling.	3 Chem.	.....	Two-story frame.	Loss, $255.00. Defective flue.
Mond'y 13	158	12.02	.....	838 S. Bond st.	Mary Prett.	Tenement house.	3, 5, 11	3	Two-story and attic frame.	Loss, $375.55. Recall 1.13 a. m.; heat from stove.
Mond'y 13	159	.....	6.14	1609 Canton ave.	George Greenfelder.	Cigar Factory and dwelling.	.....	3	Three-story brick.	Loss, $30.00. Recall 6.44 p. m.; defective flue.
Mond'y 13	323	.....	5.48	S. W. Cor. Lanvale st. and Argyle ave.	Wm. Karman.	Shoe store and dwelling.	13	.....	Three-story brick.	Loss, $93.00. Recall 6.34 p. m.; explosion of gas.
Mond'y 13	Sl't	.....	7.15	1843 Harford ave.	Wm. Harstern.	Dwelling.	19	.....	Two-story brick.	Loss, none; burning chimney.
Mond'y 13	Spc'l	.....	7.43	918 W. Fayette st.	Mrs. Rudolph Green.	Dwelling.	.....	.....	Three-story brick.	Loss, $16.75; lighted gas jet igniting curtain.
Mond'y 13	Sl't	.....	7.19	304 S. Monroe st.	M. Gorbig.	Dwelling.	.....	.....	Three story brick.	Loss, none; making fire to thaw waterpipes.
Mond'y 13	Sl't	.....	7.55	109 N. Charles st.	Philip Blum.	Dental parlors and jewelry case factory.	.....	.....	Five-story marble.	Loss, none; back draught.
Mond'y 13	413	.....	8.39	104 W. Baltimore st.	Levy and Lowenthal.	Manufrs. of pantaloons.	1, 4, 7, 15	1, 2	Four-story brick.	Loss, $5,439.23. Recall 11.13 p. m.; unknown.
Tues'y 14	Sl't	12.18	.....	1001 St. Paul st.	Henry S. Parr.	Dwelling.	18	.....	Three-and-a-half-story brick.	Loss, none; open grate fire.

Tuesd'y 14	Si-l't	2.30	.....	2217 St. Paul st.	Thomas N. Baer.	Dwelling.	.....	11	Three-and-a-half-story brick.	Loss, $104.90; badly constructed fireplace.
Tuesd'y 14	486	3.05	.....	3 Marriott street.	H. Kraus.	Stable.	1 chem.	.....	Two-story frame.	Loss $1,382.14. Recall 7.21 a. m.; unknown.
Tuesd'y 14	.....	.....	.....	1 Marriott street.	John Dinsbire.	Stable, carriage, ice and slaughter house.	14	8	.....	.....
Tuesd'y 14	326	11.02	.....	1535 Pennsylvania avenue.	James Burns.	Kitchen.	13	.....	One-story brick.	Loss $10.00. Recall 11.21 a. m.; thawing snow on roof with coal oil.
Tuesd'y 14	47	.....	5.34	1715 W. Fayette st.	J. H. McCoy.	Dwelling.	14	.....	Three-story brick.	Loss $43.00. Recall 6.12 p. m. Heat of lamp igniting curtain.
Tuesd'y 14	431	.....	9.03	1111 Bartlett st.	Mrs. Pearl Jordan.	Dwelling.	15	2	Two-story brick.	Loss $62.50. Recall 9.32 p. m.; unknown.
Wedn'y 15	47	1.25	.....	1813 W. Baltimore street.	Mrs. Mary Murphy.	Dwelling.	8, 13, 14	10	Three-story brick.	Loss$1,747.11.Recall 3.29 a. m.; explosion of gas meter.
Wedn'y 15	Spc'l	5.00	.....	1618 Grover Space	Milton F. Groff.	Saloon and dwelling.	.....	.....	Two-story brick.	Loss $52.00. Unknown.
Wedn'y 15	272	.....	9.15	1917 E. Preston st.	Joseph Cobb.	Dwelling.	19	5	Two-story brick.	Loss $132.89. Recall 9.47 p. m.; unknown.
Wedn'y 15	Si-l't.	8.25	.....	1805 Bolton st.	Moses Himmel.	Dwelling.	.....	.....	Three-story brick.	Loss none; back-draught.
Wedn'y 15	Spc'l.	10.15	.....	2413 Oak street.	James Moore-head.	Dwelling.	.....	.....	Two-story brick.	Loss none; explosion of a water back.

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Wedn'y 15	Si-l't.	6.45	.....	1253 Glyndon ave.	Wm. Amay.	Dwelling.	.....	.....	Two-story brick.	Loss none; upsetting of stove.
Wedn'y 15	Si-l't.	8.24	.....	504 N. Calvert st.	Harry Strobridge.	Barber shop and dwelling	.....	.....	Three-story brick.	Loss none; defective flue.
Thurs'y 16	495	1.30	.....	3 Baker street.	August Blome.	Dwelling.	20	.....	Two-and-half st'ry frame.	Loss $257.23. Recall 3.01 a. m.; thawing water pipe.
Thurs'y 16	13	9.03	.....	213 McElderry's wharf.	Baltimore barrel Company.	Storage house	1, 2, 3, 4, 5, 6, 9	1, 2, 3.	Three-story and attic brick.	Loss $1,976.54. Recall 12.55 p. m.; overheated stove pipe.
Thurs'y 16	2d alm	9.14	.....	215 McElderry's wharf.	Mary Cornish and others.	Eating house and dwell'g.	15, 16	.....	Three-story and attic brick.	.....
Thurs'y 16	26	.....	1.48	1237 E. Madison st.	Mrs. Nettie McWilliams.	Dwelling.	.....	.....	Two-story and attic brick.	Loss none. Recall 1.54 p. m.; unknown.
Thurs'y 16	Si-l't.	.....	9.00	205 N. Front st.	Isaac Moss.	Dwelling.	6	.....	Three-story brick.	Loss $16.50. thawing water pipe.
Thurs'y 16	238	.....	11.24	1515 E. Eager st.	Wm. W. Oster.	Grocery store.	6, 9, 19	5	Three-story brick.	Loss $4,541.37. Recall 12.50 a. m.; unknown.
Thurs'y 16	Si-l't	12.18	.....	107 and 109 North Eutaw st.	C. J. Youse.	Paper box factory.	1	.....	Four-story brick.	Loss, $94.00. Unknown.
Thurs'y 16	Si-l't	.....	9.28	N. E. Cor. Howard and Baltimore sts.	Hamburger & Sons.	Cloth'g house.	.....	.....	Five-story brick.	Loss, $5.00. Electric wire.

Friday	17	313	8.53		509 Cathedral st.	Mrs. Mary Boyd.	Dwelling.		4	Three-story brick.	Loss, none. Recall 9.34 a. m.; burning chimney.
Friday	17	Si-l't	10.26		Canton Hollow.	Owned by John Tyler.	Schr. Emma Virginia.	16			Loss, none. Spontaneous combustion.
Friday	17	231		1.53	S. E. Cor. Caroline and McElderry streets.	First Colored Baptist Church	Church.	6		Two-story brick.	Loss, none. Recall 2.13 p. m.; explosion of gas.
Friday	17	Spc'l		2.30	1020 E. Hoffman street.	Chas. J. Russ.	Dwelling and grocery store			Three-story brick.	Loss, none. Unknown.
Satur'y	18	354		2.05	133 E. Hoffman st.	James Bowen.	Dwelling.	7	4	Two-story brick.	Loss, $243.50. Recall 3.09 p. m.; overheated stove.
Satur'y	18	Si-l't		3.51	131 W. North ave.	John H. Cook.	Livery stable.		11	Three-story brick.	Loss, none. Electric wire.
Satur'y	18	Si-l't		6.15	1710 N. Charles st.	Joseph H. Brown	Dwelling.			Three-story brick.	Loss, none. Supposed fire under hearth.
Satur'y	18	161		9.34	410 S. Durham st.	Joseph Dittelman.	Dwelling.		3	Two-story brick.	Loss, $15.00. Recall 9.54 p. m.; explosion of gasoline stove.
Satur'y	18	Si-l't		8.45	821 Greenmount ave.	John Ries.	Bakery and dwelling.			Three-story brick.	Loss, $15.00. Kettle of lard boiling over.
Satur'y	18	413		11.11	116 Park ave.	Quong Wing Chang & Co.	Chinese grocery store.	1, 15	2	Three-story brick.	Loss, $194.34. Recall 1.51 p. m.; escaping gas.
Satur'y	18	Si-l't		6.00	Cross st.	Baltimore City.	Market house.		6	One-story brick.	Loss, none. Electric wire.
Satur'y	18	Si-l't		6.05	1828 E. Pratt st.	O. A. Touber.	Dwelling.	2		Five-story brick.	Loss, $5.00. Electric wire.

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Sunday 19	562	9.47	.....	1505 Clarkson st.	John J. Harris.	Dwelling.	.....	6	Two-story brick.	Loss, $40.00. Recall 9.56 a. m.; defective flue.
Sunday 19	425	.....	4.58	878 W. Baltimore street.	J. Vogelsang.	Saloon and dwelling.	1	2	Three-story brick.	Loss, $105.00. Recall 5.22 p. m.; explosion of coal-oil stove.
Sunday 19	347	.....	5.39	1017 & 1019 North street.	The Jones Manf. Co., M.T. Horner, President.	Enamelling factory.	4, 6, 7, 18	4, 5	Two-story brick.	Loss, $6,089.47. Recall 9.12 p. m.; unknown.
Sunday 19	2d alm	.....	5.49							
Sunday 19	Si-l't	.....	7.03	1900 Maryland ave	John F.McCabe	Dwelling.	.....	11	Three-story brick.	Loss, none. Burning chimney.
Sunday 19	Si-l't	12.19	.....	133 S. Howard st.	Samuel Boroma.	Eating-house.	15	.....	One-story frame.	Loss, $5.00; explosion of gasoline.
Sunday 19	128	.....	7.50	413 Centre Mkt sp.	Henry Fingerhast.	Lodging-house.	3	1	Four-story and attic brick.	Loss, $74.30. Recall 8.16 p. m.; unknown.
Mond'y 20	172	.....	9.15	20 S. Maderia st.	George Kistner.	Dwelling.	11	.....	Two-story brick.	Loss, $142.00. Recall 9.30 p. m.; explosion of coal-oil stove.
Mond'y 20	Si-l't	.....	6.00	316 Sharp st.	Wm. H. Baker.	Dwelling.	2	.....	Three-story brick.	Loss, $45.00; filling gasoline stove while lighted.
Tues'y 21	Si-l't	11.35	.....	411 E. 20th st.	Mrs. Philip Edelein.	Dwelling.	.....	11	Three-story brick.	Loss none; burning chimney.

Tues'y 21	Si-l't	.....	4.55	1224 St. Paul st.	Albert Richie.	Dwelling.	.....	11	Four-story brick.	Loss, none; defective flue.
Tues'y 21	Si-l't	.....	4.00	710 E. Baltimore st.	Thomas B. Davis	Dwelling.	....	1	Three-story brick.	Loss, none; sparks from stove,
Tues'y 21	321	.....	8.24	605 Pierce st.	Henry Topking.	Dwelling.	.....	4	Two-and-a-half-story brick.	Loss, $42.91. Recall 8.59 p. m.; lighted match thrown among clothing.
Wedn'y 22	164	2.07	.....	2026 Pleasant alley	Mary E. Walsh.	Saloon and dwelling.	11	3	Two-story brick.	Loss, $261.75. Recall 2.54 a. m.; unknown.
Thurs'y 23	154	10.35	.....	1330 Philpot st.	Baltimore City.	Disinfectant factory.	.....	.....	....	Loss, none. Recall 10.46 a. m.; dust escaping from window.
Thurs'y 23	Sp c'l	.....	11.45	104 N. Poppleton st.	John Sauers.	Dwelling.	.....	.....	Three-story brick.	Loss, $15.00; unknown.
Friday 24	Si-l't	12.35	.....	417 Mott st.	Thomas Scott.	Dwelling.	6	.....	Two-story and attic brick.	Loss, $196.90; explosion of coal-oil lamp.
Friday 24	Si-l't	9.15	.....	58 W. Biddle st.	Dr. Stewart Paton.	Dwelling.	.....	.....	Four-story brick.	Loss, none; back draught.
Friday 24	313	.....	10.23	523 N. Charles st.	Gus. A. Kaufman.	Dwelling.	7	4	Three-story brick.	Loss, $113.15. Recall 11.08 p. m.; lighted match thrown on floor.
Satur'y 25	517	11.08	.....	Cor. Bush and S. Paca sts.	Burns & Russell	Shed for storing bricks.	2, 10	6	One-story frame.	Loss, $25.00. Recall 11.57 a. m.; unknown.
Satur'y 25	Si-l't	.....	3.25	N. W. Cor. Pratt and Fremont sts	Baltimore City.	Fence.	10	.....	....	Loss, none; burning of gasoline.
Satur'y 25	167	.....	6.24	1710 Eastern ave.	E. F. Kirkley.	Florist and dwelling.	.....	.....	Two-story brick.	Loss, $77.00. Recall 6.34 p. m; carelessness with matches.

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Satur'y 25	Spc'l	.....	5.30	1128½ E. Lexington st.	Rosa Raymond.	Dwelling.	.....	.....	Two-story brick.	Loss, none; defective oil stove.
Satur'y 25	483	.....	9.20	14 Garrison lane.	Herman C. Vogell.	Hot-house.	.....	8	One-story frame.	Loss, none; sparks from furnace.
Satur'y 25	Si-l't	.....	9.25	405 Colvin st.	Peter McMann.	Dwelling.	6	.....	Two-story brick.	Loss $55.18; clothing ignited by lighted candle.
Monday 27	Si-l't	5.08	.....	633 W. Pratt st.	Chatterton Manufacturing Co	Manufacturers of furniture.	.....	.....	Three-story brick.	Loss, none; blowing open of safe by gunpowder.
Monday 27	441	.....	7.09	109 N. Charlest st.	Fred'k Krantz & Co.	Piano, organ and music store.	1, 2, 4, 7, 15	1, 2	Four-story iron.	Loss $7,676.40. Recall 8.50 p. m.; heat from furnace pipe.
Monday 27	547	.....	9.36	1228 Ohio ave.	Lloyd W. Fisher.	Dwelling and junk shop	2	6	Three-story brick.	Loss, $35.00. Recall 10.21 p. m.; explosion of coal-oil lamp.
Tues'y 28	Spc'l	9.15	.....	2131 E. North ave.	Michael E. Manchoir.	Dwelling.	.....	.....	Two-story brick.	Loss, none; explosion of coal-oil stove.
Tues'y 28	Si-l't	.....	1.10	715 Scott st.	Annie Brooks.	Dwelling.	10	.....	Three-story brick.	Loss, $43.50; sparks from stove.
Tues'y 28	Si-l't	.....	4.45	1507 Saratoga st.	Mrs. Eduerna Hoopes.	Dwelling.	.....	.....	Two-story brick.	Loss, none; children playing with matches.

March.												
Thurs'y	2	546	6.40	.....	813 S. Howard st.	J. P. Benjamin Saddler.	Foundry.	.....	6	Two-story brick.	Loss, $50.00; sparks from furnace.
Friday	3	251	11.15	.....	1001 E. Eager st.	Gustavus Rossback.	Plumb'g shop and dwell'g.	6, 9	5	Three-story brick.	Loss $75.15. Recall 11.38 a. m; unknown.
Friday	3	175	.....	1.24	304 S. Chester st.	Peter Murphy.	Dwelling.	.....	.....	Two-story and attic brick.	Loss, none. Recall 1.48 p. m.; sparks from tobacco pipe.
Friday	3	328	.....	5.31	.....	.....	.....	.....	.....	.....	False alarm.
Friday	3	293	.....	7.27	.....	.....	.....	.....	.....	.....	False alarm.
Friday	3	Si-l't	.....	6.00	116 Harrison st.	J. Wasserman.	Tailor shop and dwell'g.	.....	1	Three-story brick.	Loss, none; unknown.
Friday	3	Si-l't	.....	7.50	909 Calhoun st.	John Olerheim.	Dwelling.	.....	10	Three-story brick.	Loss, $27.00; lighted gas jet igniting curtain.
Friday	3	Sp-c'l	.....	8.20	914 Boyd st.	James McElroy.	Dwelling.	.....	.....	Two-story and attic brick.	Loss, $15.00; explosion of coal-oil lamp.
Satur'y	4	442	.....	5.45	642 W. Fayette st.	Mrs. S. S. Peterson.	Dwelling.	1	2	Three-story brick.	Loss, $22.00. Recall 5.54 p. m.; explosion of a coal-oil lamp.
Satur'y	4	171	.....	6.54	2042 Fountain st.	Caroline Neal and others.	Tenement.	.....	.....	Three-story brick.	Loss, $30.00. Recall 7.09 p. m.; defective flue.
Satur'y	4	Si-l't	.....	10.00	623 W. Lee st.	Henry Hassenkamp.	Dwelling.	.....	.....	Three-story brick.	Loss, none; defective flue.
Sunday	5	437	1.13	.....	In rear 519 and 521 W. Lombard street.	Edward Reese (white), Chas. Towson (col.)	Stable.	1, 10	2, 4	Two-story brick.	Loss $478.44. Recall 2.43 a. m.; unknown.

RECORD OF FIRES AND ALARMS FOR THE YEAR ENDING DECEMBER 31, 1899.

DATE.	BOX.	A.M.	P.M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Sunday 5	417	7.40	.....	607 Columbia ave.	Herbert Tall.	Dwelling.	.....	.....	Three-story brick.	Loss none. Recall 7.52 a. m.; wick of heater turned too high.
Sunday 5	456	.....	5.54	1128 W. Saratoga street.	Belle Lawrence.	Dwelling.	8	.....	Three-story brick.	Loss $35.00. Recall 6.05 p. m.; pan of grease boiling over.
Sunday 5	Si-l't	.....	9.13	15 Washington st.	Theo. Andrews.	Dwelling.	....	.....	Two-story brick	Loss none. Explosion of coal-oil lamp.
Sunday 5	Si-l't	.....	7.25	617 N. Eutaw st.	John V. Ruppert	Tailor shop and dwelling	7	.....	Two-and-a-half-story brick.	Loss $14.80. Upsetting of coal-oil stove.
Sunday 5	Sp c'l.	.....	4.00	Foot of York st.	Captain Colotto Ruteo.	Bark Marguerita.	....	.....	....	Loss none. Wind overturning bark.
Mond'y 6	247	10.30	.....	708 N. Gay street.	William Rose.	Dwelling.	6, 9	5	Two-story-and-attic brick.	Loss $94.51. Recall 10.45 a. m.; unknown.
Mond'y 6	Si-l't	11.24	.....	209 N. Broadway.	Robert Blade.	Dwelling.	9	.....	Three-story brick.	Loss $18.83. Overheated stovepipe.
Mond'y 6	Si-l't	.....	1.10	618 Saratoga Court	Mrs. Kate Ringgold.	Dwelling.	.....	.....	Three-story brick.	Loss none. Children playing with matches.
Tues'y 7	465	3.11	.....	2115 Calverton rd.	J. F. Wacker.	Saloon and social hall.	8, 10, 14	10	Three-story brick.	Loss $744.62. Recall 5.10 a. m.; overheated stove.

Tues'y	7	354	.....	5.24	1204 Foster alley.	Maggie Hunter.	Dwelling.	.....	.....	Three-story brick.	Loss $38.00. Recall 5.37 p. m., defective flue.
Tues'y	7	35	.....	6.40	1016 Linden ave.	William Biggs.	Dwelling.	.....	.....	Three-story brick.	Loss $5.75. Recall 6.49 p. m.; lighted gas jet igniting curtain.
Tues'y	7	Sp c'l.	8.30	.....	2912 Elliott street.	Joseph Waters.	Dwelling.	.....	.....	Three-story brick.	Loss $83.00. Lighted match thrown on floor.
Wedn'y	8	61	.....	6.50	642 Light street.	Benjamin Shain.	Grocery store and dwelling	2	6	Three-story brick.	Loss $150.00. Recall 7.24 p. m.; unknown.
Thurs'y	9	151	.....	4.07	1424 E. Lombard street.	Lewis Streater.	Dwelling.	3	.....	Two-story brick.	Loss $37.50. Recall 4.20 p. m.; coal-oil stove explosion.
Thurs'y	9	18	.....	4.35	1101 Binney street.	Michl. Mulaney.	Dwelling.	11	3	Three-story brick.	Loss $52.00. Recall 4.57 p. m.; mice gnawing matches.
Thurs'y	9	251	.....	7.57	.....	.....	.....	.....	.....	.....	Recall 8.05 p. m.; false alarm.
Thurs'y	9	873	.....	9.06	N. E. cor. Howard and Saratoga sts.	Crook, Horner & Co.	Steam-fitting and plumbing supplies.	.....	.....	Six-story brick.	Recall 9.20 p. m.; false alarm automatic.
Thurs'y	9	121	.....	9.07	413, 415 and 417 Exchange place.	Rennous & Kleinle.	Brush factory.	.....	.....	.....	Loss $113,277.42.
Thurs'y	9	2d alm	.....	9.12	417 Exch'ge place.	Baxter, Bird & Co.	Wholesale tobacco.	2,3,4,5,6,7, 9, 10.	1,3,4,5	Four story brick.	Recall 7.45 a. m. of 10th.
Thurs'y	9	3d alm	.....	9.14	.....	.....	.....	12,13,15,16	.....	.....	Cause unknown.
Thurs'y	9	Sp'l't.	3.25	.....	411 S Howard st.	Robt. F. Tinker	Grocery store, dwelling.	2	.....	Three-story brick.	Loss $17.50. Unknown.

DATE.	BOX.	A.M.	P.M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Friday 10	Sl't.	.....	12.45	298 Harford road.	Thomas Simms.	Grocery store, dwelling.	5 Chem.	.....	Two-story frame.	Loss $30.00. Overheated stove-pipe.
Friday 10	Sl't.	.....	3.05	S. E. cor. Charles & Mulberry sts.	Madam Petoaye.	Dwelling.	.....	.....	Three-story brick.	Loss none. Smoke from window.
Satur'y 11	532	7.51	.....	802 Ridgely street.	Mrs. Margaret Kerns.	Saloon and dwelling	2 10	.....	Three-story brick.	Loss $44.75. Recall 8.05 a. m.; flames from gasoline stove.
Satur'y 11	62	.....	11.59	1009 Compton st.	Mrs. Theresa McHealey.	Dwelling.	.....	6	Two-story brick.	Loss $25.00. Recall 12.15 a. m.; dropping coal oil lamp.
Sunday 12	Sl't.	.....	7.15	802 Hanover street	Simon Banks.	Dwelling.	.....	6	Three-story brick.	Loss none. Electric wire.
Sunday 12	348	.....	10.39	1700 Latrobe street	Wm. H. Steuart	Dwelling.	.....	11	Two-story brick.	Loss $58.70. Recall 11.16 p. m.; overheated stove.
Mond'y 13	259	12.54	.....	211 & 213 Wilcox street.	Edward Dowd.	Shed.	6, 9	5	One and a-half story frame.	Loss $161.37. Recall 1.44 a. m.; unknown.
Mond'y 13	253	2.38	.....	1500 Harford road	Wm. Simpson.	Shed.	9, 19 and 4 Chem.	5	Two-story frame.	Loss $219.66. Recall 3.46 a. m.; unknown.
Mond'y 13	Sl't.	1.30	.....	16 S. Stockton st.	John Strickner.	Dwelling.	8	.....	Three-story brick.	Loss $12.50. Overheated stove.
Mond'y 13	425	5.50	.....	945 W. Baltimore street.	Samuel T. Richards.	Dry g'ds store	8, 10, 14	2	Three-story brick.	Loss $1,197.17. Recall 6.54 a. m.; overheated stove.

Mond'y	13	337	8.05	1109 Division st.	Mrs. Rebecca Woods.	Dwelling.				Two-story brick.	Loss none. Recall 8.14 a. m. Heat from lamp.
Mond'y	13	Si-l't.	1.45	226 N. Eutaw st.	Mastaffi Offendi.	Confectionery store and dwelling.	1			Three and a-half story brick	Loss $79.66. Lighted gas jet igniting wood work.
Mond'y	13	Si-l't.	11.36	1512 Covington st.	Olivia White.	Dwelling.				Two-story brick.	Loss none. Pan of grease taking fire.
Tuesd'y	14	154	1.43	1440 Block street.	Catherine Wadrake.	Tenement.	3			Two-story and attic brick	Loss $229.80. Recall 2.35 a. m.; heat from stove.
Tuesd'y	14	38	5.48	2100 Pennsylvania avenue.	R. F. Saunders Wall Paper Co.	Paper hanger and dwelling.	13		10	Two-story brick.	Loss $25.00. Recall 6.05 a. m.; unknown.
Tues'y	14	18	9.45	2801 Elliott st.	Albert Wagner.	Board'g-house	11		3	Three-story brick.	Loss, $63.50. Recall 9.58 a. m.; explosion of coal-oil stove.
Tues'y	14	25	2.08	1043 Greenmount ave.	John Rohlfing.	Grocery store and dwelling.			5	Three-story brick.	Loss, $35.65. Recall 2.27 p. m.; spontaneous combustion.
Tues'y	14	Si-l't	3.10	Midstream.	Atlantic Transfer Line.	Scow No. 6.	16				Loss, none; upsetting stove.
Tues'y	14	535	6.35	1425 James st.	Walter Coombes	Dwelling.	10			Two-story brick.	Loss, $122.00. Recall 7.17 p. m.; overheated stove.
Tues'y	14	418	7.47	306 W. Lexington st.	George C. Muller and others.	Scouring, dyeing photo'g and Co.	1, 4, 7, 15		1, 2	Four-story brick.	Loss, $1,438.19. Recall 9.04 p. m.; unknown.
Wedn'y	15	373	4.24	1349 Stockton st.	CatherineMartin	Grocery store and dwelling.	8, 13	2 Chem.	10	Two-story brick.	Loss, $722.30. Recall 5.52 a. m.; unknown.

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DATE.	BOX.	A.M.	P.M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Thurs'y 16	43	11.20	.....	661 Portland st.	August Relzargas.	Dwelling.	10	2	Three-story brick.	Loss, $130.00. Recall 11.43 a. m.; unknown.
Thurs'y 16	482	.....	4.15	535 Addison alley.	Albert Gardner.	Dwelling.	14	.....	Two story brick.	Loss, $35.00. Recall 4.35 p. m.; spontaneous combustion.
Thurs'y 16	128	.....	5.35	508 to 512 E. Lombard st.	Lauer & Suter.	Manuf'g confectioners.	3, 4, 5, 6, 15	1, 3	Four-story brick.	Loss, $538.50. Recall 6.59 p. m.; unknown.
Thurs'y 16	Sp c'l	11.49	.....	2116 Cambridge st.	Thomas Oliver.	Dwelling.	.....	.....	Three-story brick.	Loss, none; defective fire-place.
Friday 17	367	1.20	.....	1100 Myrtle ave.	S. W. Pennington.	Drug store and dwelling.	8, 13	4	Three-story brick.	Loss, $453.00. Recall 1.44 a. m.; unknown.
Satur'y 18	357	.....	1.22	206 W. Biddle st.	Reziah Crowley.	Dwelling.	7, 18	4	Three story brick.	Loss, $292.91. Recall 2.24 p. m.; unknown.
Satur'y 18	414	.....	6.00	304 W. Baltimore st.	B. J. Prissman and Cline Bros	Warehouse.	15	2	Three-story brick.	Loss, $281.39. Recall 6.31 p. m.; unknown.
Sunday 19	235	12.56	.....	724 Chester st.	Harry H. Fox	Dwelling.	.....	.....	Two-story brick.	Loss, none. Recall 1.07 a. m.; upsetting gasoline lamp
Sunday 19	441	.....	3.44	104 W. Fayette st.	U. S. Government.	Recruiting office.	.....	.....	Two-story brick.	Loss, none. Recall 3.51 p. m.; back draught.

Sunday 19	731	.....	7.48	1753 N. Castle st.	Frederick Sturm and others.	Store & dwelling.	9, 19 Chem. 5, 6	5	Three-story brick.	Loss, $522.00. Recall 8 55 p m.; upsetting of coal-oil lamp.
Mond'y 20	153	10.05	.. ..	1407 Eastern ave.	Becky Lickenstein.	Tenement.	.....	3	Three-story brick.	Loss, $24.00. Recall 10.22 a. m.; defective flue.
Tues'y 21	736	.....	6.04	1801 Harford ave.	Joseph Dade.	Cigar store and dwelling	.....	.....	Two-story brick.	Loss, $20.72. Recall 6.14 p. m.; explosion of gasoline stove.
Tues'y 21	462	.....	7.11	108 S. Monroe st.	Leonard Sipes.	Dwelling.	14	.....	Three-story brick.	Loss, none. Recall 7.22 p. m.; upsetting coal-oil heater.
Tues'y 21	Si-l't	.....	4.10	316 N. Charles st.	E. Dailley.	Dwelling.	.....	.....	Three-story brick.	Loss, none; unknown.
Tues'y 21	Si-l't	.....	11.30	701 W. Lexington street.	Chas. Brunier.	Meat store and dwelling	.....	.....	Three-story brick.	Loss, none; electric wire.
Tues'y 21	Spc'l	.....	5.00	804 China street.	John W. Weeks.	Dwelling.	.....	.....	Two-story brick.	Loss, $34.00; unknown.
Tues'y 21	Si-l't	.....	12.37	315 S. Ann street.	Aug'st Schramm	Dwelling.	5	3	Three-story brick.	Loss, none; sparks from chimney.
Wedn'y 22	Si-l't	12.02	.....	206 N. Gay street.	Long & Bro.	Hat store and Gents furnishing g'ds	.....	1	Three-story brick.	Loss $30.00; electric wire.
Wedn'y 22	18	5.33	.....	S. W. corner Boston and Patuxent sts.	Wm. Fait & Co.	Process Solder and Engine building.	1, 2, 3, 4, 5, 6, 9, 10.	1, 2, 3, 5.	One-and-three-story brick.	Loss, $23,000.00. Recall 10.10 a. m.; explosion of gasoline
Wedn'y 22	*	5.40	.....	.....	.....	.....	11, 15, 16	.....	.....	*General alarm.
Wedn'y 22	121	.....	5.41	33 South street.	Third National Bank.	Bank.	4	1	Two-story brick and iron.	Loss, $9.73. Recall 6.15 p. m; burning chimney.

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Date.	Box.	A.M.	P.M.	Locality.	Occupant.	How Occupied.	Engines in Service.	H. & L. in Serv'ce	Building.	Remarks.
Wedn'y 22	473	.....	7.50	232 N. Mount st.	Mrs. Lizzie Berry	Dwelling.	8	10	Three-story brick.	Loss, $231.71. Recall 8.14 p. m.; lighted gas jet igniting curtains.
Wedn'y 22	459	.....	8.43	903 N. Gilmor st.	Edward Pick.	Dwelling.	.....	10	Three-story brick.	Loss, $112.50. Recall 9.02 p. m.; overheated stove.
Wedn'y 22	Sp c'l	.....	8 30	508 N. Eden st.	Martha Hill.	Dwelling.	.....	.....	Three-story brick.	Loss, none; careless handling of matches.
Friday 24	216	8.07	.....	407 Lewis street.	Henry Melocock	Dwelling.	.....	.....	Two-story brick.	Loss, $43.00. Recall 8.16 a. m.; overheated stove.
Friday 24	15	9.24	.....	401 S. Broadway.	Kirkness & Walker.	Drug store and Photograph gallery.	.....	.....	Four-story brick.	Loss, $132.40. Recall 9.45 a. m.; upseting coal-oil stove.
Friday 24	287	10.16	.....	101 Brady avenue.	George Rohl.	Dwelling.	Eng. 18 Chem. 4, 5	9	Two-and-a-half story frame.	Loss, $280.00. Recall 11.47 a. m.; defective flue.
Friday 24	Si-l't	10.21	.....	104 Albermarle st.	Mary Kurtz.	Tenement.	3	.....	Three-story and attic brick.	Loss, $40.00; children playing with matches.
Sunday 26	636	.....	11.40	Foot of Decatur st.	Consolidated Coal Co.	Tool house.	17	6	Three-story frame	Loss, $75.00. Recall 12.14 a. m.; unknown.
Mond'y 27	Si-l't	12.55	.....	126 W. Franklin st.	J. Swan Frick.	Dwelling.	.....	.....	Four-story brick.	Loss, none; burning chimney.

Tues'y	28	252	12.07	1201 Greenmount avenue.	Charles Eck & Bro.	Grocery store and dwelling.	6, 18, 19	5	Three-story brick.	Loss $222.90. Recall 1.47 a. m.; unknown.
Tues'y	28	461	9.38	304 S. Bruce st..	H. W. Keating.	Dwelling.	14	.....	Two-story brick.	Loss $25.00. Recall 9.12 a. m.; explos'n of gasoline stove.
Tues'y	28	191	9.05	.....	.....	.....	.....	.....	.....	Recall 9.12 p. m.; false alarm.
Wedn'y	29	279	2.47	2302 Jefferson st.	August Haybell.	Dwelling.	9	3	Two-story brick.	Loss $6.00. Recall 3.03 p. m.; unknown.
Wedn'y	29	442	8.48	616 W. Baltimore street.	John Barrett.	Cigarstore and dwelling.	.....	.....	Three-story brick.	Loss $10.00 Recall 8.54 p. m.; children playing with matches.
Thurs'y	30	213	12.05	143 N. Front st.	Dr. H. Flinder.	Dwelling.	3, 4, 6	1	Three-story brick.	Loss $350.30. Recall 12.28 p. m.; unknown.
Thurs'y	30	259	6.40	834 E. Preston st.	Howard Brevard	Dwelling.	.....	5	Three-story brick.	Loss $10. Recall 7.04 p. m.; explosion of coal-oil stove.
Thurs'y	30	218	7.17	806 E. Baltimore street.	Jas. L. Weiskoff.	Dry goods store and dwelling.	.....	1	Three-story brick.	Loss $41.51. Recall 7.30 p. m. Lighted match thrown on floor.
Thurs'y	30	Si-l't.	11.35	East side of Font Hill, N. of Frederick ave.	House of Refuge	House of Refuge.	14, chem. 1	.....	Five story stone.	Loss $30.00 Spontaneous combustion.
Thurs'y	30	535	8.20	1331 Carroll street.	George Dell.	Junk shop.	.....	.....	Two-story brick.	Loss $35. Recall 9.05 p. m.; unknown.
Thurs'y	30	Si-l't.	6.47	426 Hanover st.	Harry Freedman	Sweat shop and dwelling.	2	.....	Three-and-a-half story brick.	Loss none; explosion of gasoline stove.

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DATE.	BOX.	A.M.	P.M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
April.										
Satur'y 1	525	.....	3.23	114 W. Pratt st.	Henry F. Meredith.	Saloon and dwelling.	1, 2, 4, 15	2, 6	Three-story brick.	Loss $80.70. Recall 4.16 p. m.; unknown.
Satur'y 1	Si-l't.	.....	7.45	505 E. Fort ave.	Geo. Gesswein.	Dwelling.	12	.....	Two-story brick.	Loss $31.75; explosion of gasoline stove.
Satur'y 1	Sp c'l.	10.15	.....	1368 Garrett ave.	Henry Bing.	Store and dwelling.	.....	.....	Two-story brick.	Loss $30; unknown.
Sunday 2	241	.....	12.58	738 Harford ave.	BridgetConnelly	Dwelling.	4	5	Three-story brick.	Loss $45.00. Recall 1.22 p. m.; sparks from chimney.
Sunday 2	389	.....	1.56	Cor. Reisterstown road and Tyler lane.	Joseph Jacobs.	Dwelling.	21, chem. 2	9	Three-story frame.	Loss $1,052.90. Recall 4.41 p. m.; defective flue.
Sunday 2	418	.....	6.40	313 Marion street.	Salodouis Serio.	Dwelling.	.....	.....	Three-story brick.	Loss none. Recall 6.49 p. m; upsetting coal-oil lamp.
Sunday 2	143	.....	8.40	219 S. Central ave.	Simon Rosenburg.	Tenement.	3	3	Three-story brick.	Loss, $25.00. Recall 8.54 p. m; unknown.
Sunday 2	527	.....	10.22	227 W. Camden st.	Jos. M. Blaceby.	Saloon and boarding-house.	2, 15	2, 6	Three-and-a-half-story brick.	Loss, $742.00. Recall 11.50 p. m.; unknown.
				305 S. Howard st.	Jacob Sheir.	Clothing establishment.	.....	.....	Three-story brick.	

Mond'y	3	162	8.48	.....	Thames st., near Ann st.	Geo. Chipman & Co.	Wagon load of chairs.	16	3	.....	Loss, $10.00. Recall 8.55 a. m.; unknown.
Mond'y	3	399	.....	1.56	116 Third ave.	Miss Sarah Shirden.	Dwelling.	.....	.....	Two-story frame.	Loss, $56.00. Recall 2.04 p. m; explosion of coal-oil stove.
Mond'y	3	Si-l't	.....	4.55	21st st. near Maryland ave.	City Fire Department.	Shed.	.....	11	One-story frame.	Loss, none; mice gnawing matches.
Mond'y	3	272	.....	10.32	1039 N. Wolfe st.	Lydia Busick and others.	Shoe store and dwelling.	9, 19	5	Three-story brick.	Loss, $449.63. Recall 11.20 p. m.; unknown.
Tues'y	4	272	12.42	.....	1039 N. Wolfe st.	Lydia Busick and others.	Shoe store and dwelling.	9, 19	5	Three-story brick.	Loss, none. Recall 1.27 a. m.; supposed incendiary.
Tues'y	4	251	8.24	.....	921 Ensor st.	Wm. W. Pierce.	Dwelling.	.....	5	Three-story brick.	Loss, $27.00. Recall 8.31 a.m. Children playing with matches.
Tues'y	4	387	.....	3.54	Elgin ave., west of Reisterstown rd.	Wm. Coffman.	Stable and carriage house.	13, 20 Chem. 2	10	Two-story brick.	Loss, $635.64. Recall 6.25 p. m.; sparks from brush.
Tues'y	4	252	.....	7.42	1121 Greenmount ave.	Bridget Kavanaugh.	Dry Goods store and dwelling.	.....	.....	Two-story brick.	Loss, $39.00. Recall 7.53 p.m. Lighted gas jet igniting goods.
Tues'y	4	165	.....	8.16	1608 E. Baltimore st.	Jacob Harris.	Dwelling.	.....	3	Two-story and attic brick.	Loss, $33.25. Recall 8.26 p. m.; sparks from cigar.
Tues'y	4	157	.....	9.30	710 S. Bethel st.	Henry Chinkwoki.	Tenement.	5	3	Two-story and attic brick.	Loss, $113.60. Recall 9.52 p. m.; supposed incendiary.

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Date.	Box.	A.M.	P.M.	Locality.	Occupant.	How Occupied.	Engines in Service.	H. & L. in Serv'ce	Building.	Remarks.
Wedn'y 5	Sp c'l	2.10	.....	727 S. Bond st.	Louis Wine.	Tenement.	.....	.....	Three-story brick.	Loss, $75.00; explosion of coal oil lamp.
Wedn'y 5	41	9.35	.....	17 E. Fayette st.	C. W. Horner.	Lunch room.	.....	1	Three-story brick.	Loss, none. Recall 9.50 a. m., defective air-pipe.
Wedn'y 5	64	.....	12.51	.....	.....	.....	.....	.....	.....	Recall 1.02 p. m.; false alarm.
Wedn'y 5	39	.....	1.23	1677 N. Carey st.	Mrs. Mary Gissendaffer.	Dwelling.	.....	.....	Two-story brick.	Loss, none. Recall 1.36 p. m.; waste paper thrown on stove.
Wedn'y 5	445	.....	9.08	909 Pierce st.	Marie Wyann.	Dwelling.	8	.....	Three-story brick.	Loss, $19.50. Recall 9.16 p. m.; unknown.
Wedn'y 5	Si-l't	.....	5.00	1042 Hillen st.	John H. Wilhelm	Provis'n store.	6	.....	Two-story brick.	Loss, $12.00. Defective chimney.
Thurs'y 6	44	4.41	.....	18 North street.	Paul Mills and others.	Restaurant.	4	1	Three-story brick.	Loss, $60.00. Recall 4.54 a. m.; unknown.
Thurs'y 6	535	9.27	.....	1432 Carroll st.	James W. Pinder	Dwelling.	.....	6	Two-story brick.	Loss, none. Recall 9.36 a. m.; burning chimney.
Thurs'y 6	Si-l't	.....	2.30	1425 Olive st.	Mrs. Wm. Cooper	Dwelling.	.....	6	Two-story brick.	Loss, none. Burning chimney.

Thurs'y	6	218	.....	7.25	42 and 44 S. Front street.	Owen Reynolds.	For storing merchandise.	3, 4, 6, 9	1, 3	Two-story brick.	Loss, $348.25. Recall 9.03 p. m.; sparks from cupola.
Thurs'y	6	Si-l't	.....	12.15	1418 Lafayette ave	H. C. Kabernagel.	Dwelling.	.....	10	Two-story brick.	Loss, $40.00. Sparks from matches.
Thurs'y	6	Si-l't	.....	1.15	818 S. Bond st.	Joseph Walters.	Dwelling.	16	.....	Two-story and attic brick.	Loss, none. Defective flue.
Thurs'y	6	Spc'l.	.....	5.15	1312 Hull st.	Geo. W. Spicer.	Dwelling.	.....	.....	Two-story brick.	Loss, $70.00. Unknown.
Friday	7	Si-l't	4.25	.....	1206 E. Monument street.	Andrew Yearly.	Dwelling.	6	.....	Two-story brick.	Loss, $323.00. Burning blanket thrown on roof.
Friday	7	Si-l't	7.10	.....	206 E. German st.	Merchants' Club	Club house.	4	.....	Three-story brick.	Loss, none. Burning chimney.
Friday	7	Si-l't	7.30	.....	1405 Cooksie st.	Hester Breckholtz.	Dwelling.	17	.....	Two-story brick.	Loss, none. Boiling over of pan grease.
Friday	7	438	.....	7.25	877 W. Lombard st	Leopold Braun.	Dwelling.	8, 10, 15	2	Three-story brick.	Loss $634.45. Recall 8.20 p. m.; unknown.
Satur'y	8	713	3.28	.....	2867 N. Fulton ave	Lok Yuen.	Laundry and dwelling.	13, 20, Chem. 2.	10	Three-story frame	Loss $182.50. Recall 4.53 a. m.; unknown.
Satur'y	8	382	....	10.30	1110 Clendenin st.	Frank Neumeister.	Dwelling.	13, Chem. 2.	11	Two-story brick.	Loss, $293.60. Recall 11.24 p. m.; explosion of coal-oil lamp.
Satur'y	8	Si-l't	2.50	.....	319 Amity st.	William Rictor.	Dwelling.	10	.....	Two-story brick.	Loss, $37.00. Explosion of coal-oil lamp.
Satur'y	8	Si-l't	10.25	.....	1702 Thames st.	Louis Viola.	Saloon and dwelling.	16	.....	Three-story brick.	Loss, $10.00. Box of matches ignited by the sun.

RECORD OF FIRES AND ALARMS FOR THE YEAR ENDING DECEMBER 31, 1899.

DATE.	BOX.	A.M.	P.M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Mond'y 10	176	3.53	.....	500 N. Patterson Park ave.	Fred. L. Fisher.	Saloon and dwelling.	5, 9, 11	3	Three-story brick.	Loss, $529.17. Recall 4.54 a. m.; overheated stove.
Mond'y 10	Si-l't	8.06	.....	1006 E. Pratt st.	Mrs. Weinstein.	Dwelling.	.....	.....	Two-story and attic brick.	Loss, none. Dress catching fire from stove.
Mond'y 10	64	10.35	.....	1822 Light st.	Casper Utz.	Bakery and dwelling.	.....	6	Two-story and attic brick.	Loss. $43.50. Recall 10.53 a. m.; explosion of coal-oil stove.
Mond'y 10	165	.....	2.23	1643 E. Baltimore street.	Wm. H. Rowe, Jr	Dwelling.	.....	.....	Two-story and attic brick.	Loss, none. Recall 2.28 p. m.; flames from gasoline stove
Mond'y 10	382	.....	3.02	2117 Madison ave.	James Trainor.	Stable and plumb'g shop.	.....	11	Two-story brick.	Loss, $10 00. Recall 3.25 p. m.; unknown.
Mond'y 10	Si-l't	.....	3.40	28 Hanover street.	Peter Rose & Sons.	Man'facturers of harness.	.....	.....	Five-story iron.	Loss, none. Burning chimney.
Mond'y 10	425	.....	4.08	905 W. Fayette st.	Unoccupied.	Dwelling.	1	2	Two-story brick.	Loss, $30.00. Recall 4.28 p. m.; sparks from chimney.
Mond'y 10	371	.....	11.49	928 N. Gilmor st.	Mrs. Mary Cole.	Dwelling.	8, 13, 14	10	Three-story brick.	Loss, $941.47. Recall 1.40 a. m.; unknown.
Mond'y 10	.....	.....	.....	930 N. Gilmor st.	Mr. Boss.	Dwelling.	.....	.....	Three-story brick.	
Mond'y 10	Si-l't	.....	7.55	1522 Clifton street.	Wm. Winternitz	Dwelling.	2 Chem.	.....	Three-story brick.	Loss, $146.95. Defective flue.

Tues'y	11	Si-l't	7.40	.....	287 N. Exeter st.	Nathan Rosenbloom.	Dwelling.	6	.....	Two-story brick.	Loss, $239.87. Unknown.
Tues'y	11	296	9.59	.....	N. W. cor. St. Paul & 20th streets.	Wm. J. Taylor.	Dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 10.20 a. m.; burning chimney.
Tues'y	11	479	11.52	.....	1818 N. Mount st.	Martin Meinle.	Dwelling.	.....	10	Two-story brick.	Loss, $20.00. Recall 12.14 p. m.; sparks from gasoline stove.
Tues'y	11	Spc'l	9.30	.....	22 E. Hill street.	Wm. T. Tucker.	Dwelling.	.....	.....	Two-story brick.	Loss, $38.00. Unknown.
Wedn'y	12	361	11.55	....	302 Pearl street.	Wm. Morgan.	Dwelling.	1	2	Two-story brick.	Loss, $10.00. Recall 12.12 p. m.; careless handling of matches.
Wedn'y	12	352	.....	7.14	1413 Bolton street.	Miss Carrie Hindes.	Dwelling.	13	11	Three-story brick.	Loss, $1,704.51. Recall 8.12 p. m.; unknown.
Thurs'y	13	162	9.34	.....	700 S. Wolfe st.	August Lawrence.	Tenement.	11	3	Two-story and attic brick.	Loss, $14.50. Recall 9.47 a. m.; unknown.
Thurs'y	13	152	9.58	.....	1634 E. Pratt st.	John Noll.	Dwelling.	.....	3	Three-story brick.	Loss, $25.00. Recall 10.03 a. m.; leaking gasoline stove.
Thurs'y	13	217	.....	6.09	537 N. Exeter st.	August Rugsby.	Stable.	6	.....	One and a-half story frame.	Loss, none. Recall 6.26 p. m.; unknown.
Thurs'y	13	Si-l't	11.15	.....	3 Font Hill ave.	David Widerman.	Dwelling.	.....	8	Two-story frame.	Loss, none. Burning chimney.
Friday	14	523	1.52	.....	508 S. Eutaw st.	John Krame.	Cigar and confectionery store.	2, 15	2	Two and a-half story brick.	Loss, $175.00. Recall 2.32 a. m.; unknown.

DATE.	BOX.	A.M.	P.M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Friday 14	413	.....	7.38	115 W. Fayette st.	Vincent Depasquale.	Tailor establishment.	.....	.....	Four-story brick.	Loss, none. Recall 7.48 p. m.; unknown.
Friday 14	Sl't	.....	7.45	116 Copemans c'rt	Wm. Heying.	Dwelling.	.....	6	Two-story brick.	Loss, $56.00. Unknown.
Friday 14	543	.....	8.07	1232 Riverside ave.	John Marlly.	Dwelling.	12	.....	Three-story brick.	Loss, $17.50. Recall 8.18 p. m.; lighted gas jet igniting curtains.
Satur'y 15	233	6.02	.....	2823 E. Monument street.	Nellie Dozer.	Dwelling.	9	.....	One-story and attic frame.	Loss, $5.00. Recall 6.12 a. m.; sparks from chimney.
Satur'y 15	291	6.35	.....	2602 and 2604 York road.	Atlas Manufacturing Co.	Manufacture's of yeast.	4 chem.	7	Three-story brick.	Loss, none. Recall 7.00 a. m.; supposed incendiary.
Satur'y 15	381	7.33	.....	1332 Presstman st.	Renzie Buchanan.	Dwelling.	.....	.....	Three-story brick.	Loss, $55.00. Recall 7.45 a. m.; unknown.
Satur'y 15	Sl't	10.37	.....	207 E. Preston st.	Mrs. Charles T. Holloway.	Dwelling.	.....	.....	Three-story brick.	Loss, none; burning of old shoes in kitchen stove.
Satur'y 15	268	.....	4.56	1425 Federal st.	Philip Souderman.	Shed.	.....	5	One-story frame.	Loss, $14.00. Recall 5.09 p. m.; sparks from stove.
Satur'y 15	Sl't	4.12	.....	121 N. Greene st.	Roselle & Co.	Carpet-cleaning establishment. 132	.....	.....	Four-story brick.	Loss, none; burning waste paper.

Sunday	16	497	2.48	.....	2124 Ridgewood st.	Nicklas Knittle.	Grocery store & dwelling.	20	.....	Two-story brick.	Loss $49.00. Recall 3.18 a. m.; mice gnawing matches.
Sunday	16	217	.....	1.31	622 Constitution st	John Finnegan.	Dwelling.	6	5	Two-story and attic brick.	Loss none. Recall 1.39 p. m.; burning chimney.
Sunday	16	243	.....	8.15	716 Ensor street.	Michael Ellersberger.	Bakery and dwelling.	6, 9	5	Two-story and attic brick.	Loss $50.00 Recall 8.35 p. m.; sparks from oven.
Sunday	16	349	.....	8.30	14 E. 25th st.	John A. Brown.	Shed.	18	.....	One-story frame.	Loss $15.00. Recall 8.50 p. m.; unknown.
Sunday	16	Si-l't	.....	2.29	329 N. Charles st.	Mrs. Mary J. Thomas.	Store & dwelling.	4	.....	Three-story brick.	Loss $5.20; electric wire.
Mond'y	17	Si-l't	11.45	.....	805 E. Fayette st.	Annie Shott and others.	Dwelling.	.....	1	Two-story and attic brick.	Loss none; upsetting coal-oil lamp.
Mond'y	17	Si-l't	.....	5.30	117 Harrison st.	J. N. Collins.	Furniture store and dwelling.	.....	1	Two-story and attic brick.	Loss, none. Children playing with matches.
Mond'y	17	361	12.35	.....	636 Mulberry st.	Mary Conroy.	Dwelling.	1	2	Three-story brick.	Loss $171.54. Recall 1.08 a. m.; lighted cigarette ignited lounge.
Mond'y	17	376	11.07	.....	1902 Eutaw Place.	Mrs. Jacob Ludington.	Dwelling.	.....	.....	Three-story stone.	Loss $162.50. Recall 11.24 a. m.; curtain ignited by painter's blowpipe.
Mond'y	17	Si-l't	.....	5.23	17 W. Barre st.	George J. Kries.	Dwelling.	2	.....	Three-story brick.	Loss none; overheated stove.
Mond'y	17	Si-l't	.....	7.05	1010 E. Baltimore street.	Bernard Fleishman.	Dry goods store and dwelling.	3	.....	Three-story brick.	Loss $25.00; gas jet igniting goods.

DATE.	BOX.	A.M.	P.M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Tuesd'y 18	54	12.15	.....	206 Hill street.	John Toadwein.	Dwelling.	2, 12, 15	6	Three story brick.	Loss $87 50. Recall 1.00 a. m.; unknown.
Tuesd'y 18	Si-l't	.....	12.24	Maiden Choice la and Cottage ave.	Unoccupied	Dwelling.	1 Chem.	8	Two-story frame.	Loss none. Unknown.
Tuesd'y 18	533	.....	8 38	847 Woodward ave	Geo. Harman.	Dwelling.	2, 10	.....	Two-story brick.	Loss $22.00. Recall 8.52 p. m.; upsetting coal-oil lamp.
Wedn'y 19	Si-l't	.....	9 41	1647 E. Madison st	Wm. Foster.	Dwelling.	9	.....	Three-story brick.	Loss $15.00. Tinner's fire pot.
Wedn'y 19	Spc'l	.....	2.00	1205 Andrae street	Albert Anderson	Dwelling.	.....	.....	Three-story brick.	Loss $15.00. Children playing with matches.
Thurs'y 20	621	.....	12.56	547 to 551 E. Cross street.	Kerwin & Riggs	Lumber-room & can factory.	12	.....	Three-story brick.	Loss none. Recall 1.08 p. m.; unknown.
Thurs'y 20	173	.....	1.24	6151 Bradford al.	Mary Schmelling.	Dwelling.	11	.....	Two-story brick.	Loss none. Recall 1.30 p. m.; filling lighted gasoline stove.
Thurs'y 20	Spc'l	.....	7.15	224 N. Schroeder street.	A. Westhoff.	Dwelling.	.....	.....	Two-story brick.	Loss $14.00. Explosion of coal-oil lamp.
Thurs'y 20	428	.....	8.58	14 N. Schroeder st	Durm Bros. & Co.	Office & iron foundry.	8, 14	4	One-story frame.	Loss $60.00. Recall 9.54 p. m.; overheated oven.

Friday	21	316	6.34	.....	Buren and Madison streets.	City of Baltimore.	Stable.		4, 6	4	Two-story stone.	Loss $225.00. Recall 7.36 a. m.; spontaneous combustion.
Friday	21	243	.....	1.53	625 Ensor street.	AnnaMcDonnell	Shed.		4, 6, 9	5	One-story frame.	Loss $83.43. Recall 2.30 p. m.; unknown.
Friday	21	.....	.....	.....	627 Ensor street.	William Bush.	Kitchen.		.....	.....	One-story frame.	.....
Friday	21	.....	.....	.....	627 Sterling street	Robt. J. Collins.	Shed and coal bin.		.....	.....	One-story frame.	.....
Friday	21	417	.....	6.22	608 to 618 Portland street.	Conrad Haupt	Picture frame and moulding factory.		1, 2, 10, 15	2, 4, 6	Three-story brick.	Loss $2,429.96. Recall 8.15 p. m.; sparks from boiler
Friday	21	2d alm	.....	6.29	.....	.....	.....		.....	.....	.....	.....
Friday	21	328	.....	7.41	504 Lafayette ave	Mrs. Minerva Tucker.	Dwelling.		.....	.....	Three-story brick.	Loss $90.20. Recall 7.53 p. m.; lighted gas jet igniting curtains.
Friday	21	428	.....	8.34	14 N. Schroeder st	Divens Bros.	Office.		8, 13, 14	4	One-story frame.	Loss $225.00. Recall 9.46 p. m.; overheated oven.
Friday	21	427	.....	8.56	611 W. Lexington street.	Mrs. Lena Goetz	Store and dwelling.		1	2	Three-story brick.	Loss $35.00. Recall 9.12 p. m.; explosion of coal-oil lamp.
Friday	21	Si-l't	.....	7.50	556 N. Gay st.	Gustave Brockat	Bakery and dwelling.		6	.....	Two-story and attic brick.	Loss $5.00. Overheated oven.
Friday	21	Si-l't	.....	7.50	3 S. Frederick st.	Daniel & Cross.	Theatre.		.....	5	Two-story and attic brick.	Loss $32.50; lighted match thrown on floor.
Friday	21	Si-l't	.....	10.10	1545 Ensor st.	John Smith.	Dwelling.		.....	5	Two-story and attic brick.	Loss $33.80; dropping lighted lamp.

RECORD OF FIRES AND ALARMS FOR THE YEAR ENDING DECEMBER 31, 1899.

Date.	Box.	A.M.	P.M.	Locality.	Occupant.	How Occupied.	Engines in Service.	H. & L. in Serv'ce	Building.	Remarks.
Satur'y 22	338	11.17	.....	216 Diamond st.	Mrs. Annie Stewart.	Dwelling.	.....	2	Two-story and attic brick.	Loss, none. Recall 11.38 a. m.; burning chimney.
Satur'y 22	514	.....	7.56	335 W. Pratt st.	Armour & Co.	Wholesale meat house.	15	2, 6	Three-story brick.	Loss, $651.57. Recall 8.25 p. m.; house full of smoke.
Satur'y 22	Si-l't	.....	3.50	508 W. Biddle st.	Edward Johnson	Dwelling.	.....	.....	Two-story brick.	Loss, none; burning chimney.
Sunday 23	Sp-c'l	.....	7.10	18 S. Mount st.	Wm. H. Jenkins.	Dwelling.	.....	.....	Three-story brick.	Loss, $149.00; unknown
Mond'y 24	Si-l't	.....	6.46	1623 Ashland ave.	Wm. E. Rider.	Dwelling.	.....	.....	Three-story brick.	Loss, none: leaking gasoline stove.
Mond'y 24	Si-l't	.....	8.57	134 N. Durham st.	Charles Gross.	Dwelling.	.....	3	Two-story brick.	Loss, $36.80; carelessness with matches,
Tues'y 25	321	11.08	.....	540 Mulberry st.	Mary E. Thomas	Dwelling.	.....	4	Three-story brick.	Loss, $30.00. Recall 11.24 a. m,; children playing with matches.
Tues'y 25	183	.....	5.07	910 Harris alley.	Francis Duvall.	Dwelling.	.....	.....	Two-story brick.	Loss, none. Recall 5,16 p. m.; purposely set on fire.
Tues'y 25	163	.....	8.55	17 Chappel st.	Annie Neudecker.	Dwelling.	.....	.....	Two-story brick.	Loss, none. Recall 9.06 p. m.; leaking gasoline stove.

Tues'y	25	523	.....	9.54	415 and 417 West Camden st.	Chas. G. Sommers & others.	Fruit Packing and Chemical Works.	1, 2, 4, 7, 8, 10, 15,	1, 2, 4, 6	Three-story brick.	Loss, $3,191.44. Recall 12.12 a.m.; unknown.
Tues'y	25	2d alm	.....	9.58	.....	.....	.....	.....	.....	.....	.....
Wedn'y	26	143	11.40	.....	203 S. Central ave.	David Merrine.	Sweat shop and dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 11.50 a. m.; clothing of child taking fire from gas stove.
Thurs'y	27	Si-l't	10.25	.....	205 S. Broadway.	S. Sinsheimer.	Cigar store and dwelling.	.....	3	Three-story Brick.	Loss, $46.80; leaking gasoline stove.
Thurs'y	27	232	9.50	.....	1515 E. Fayette st.	George Kinnear	Dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 10.09 a. m.; explosion of gasoline stove.
Thurs'y	27	428	11.39	.....	226 Bowers Court.	Laura Wilson.	Dwelling.	8	4	Two-story brick.	Loss, $20.00. Recall 12.03 p. m.; children playing with matches
Thurs'y	27	226	.....	7 20	364 and 366 Forrest st.	Louis Lauer & Bro.	Storage-house	3, 4, 6, 9, 19	1, 5	One-story frame.	Loss, $4,487.14 Recall 9.38 p. m.; unknown.
Thurs'y	27	2d alm	.....	7.29	.....	.....	.....	.....	.....	.....	.....
Thurs'y	27	363	.....	8.21	906 W. Franklin st	Philip Chalmers	Dwelling.	.....	4	Three-story brick.	Loss, $198.50. Recall 8.34 p. m.; unknown.
Thurs'y	27	318	.....	9.03	.....	.....	.....	.....	.....	.....	Loss, none. Recall 9.10 p. m.; false alarm.
Friday	28	355	11.45	.....	1105 Fulton alley.	Henry Wright.	Dwelling.	.....	4	Two-story and attic brick.	Loss, $10.00. Recall 12 m.; sparks from chimney.

RECORD OF FIRES AND ALARMS FOR THE YEAR ENDING DECEMBER 31, 1899.

DATE.	BOX.	A.M.	P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Friday 28	368	.....	4.45	703 Mulberry st.	Solomon Philip.	Dwelling.	8	4	Two-story brick.	Loss, $5.00. Recall 5.06 p. m.; sparks from chimney.
Friday 28	Si-l't	.....	6.40	Northwest st. and Bloomingdale rd	Vacant lot.	Tree.	20	.....	.....	Loss, none; unknown.
Friday 28	Si-l't	.....	8.57	710 Linden ave.	Leo Wilson.	Dwelling.	7	.....	Three-story brick.	Loss, $35.50; unknown
Satur'y 29	562	5.35	.....	1444 Patapsco st.	Geo. W. Butts.	Dwelling.	.....	.....	Two-story brick.	Loss, $35.00. Recall 5 45 a. m.; upsetting gasoline stove
Satur'y 29	217	.....	8.59	N. W. cor. Hillen and Exeter sts.	Western Maryland R. R. Co.	Freight shed.	6	1	One-story frame.	Loss, $5.00. Recall 9.17 p. m.; sparks from locomotive.
Satur'y 29	375	.....	9.29	1424 Mt. Royal ave	William L. Stillwell.	Dwelling.	.....	11	Three-story brick.	Loss, $224.50. Recall 10.08 p. m.; unknown.
Sunday 30	412	.....	7.42	19 Hopkins Place.	Ambach Bros. & Co.	Manufac'urers of clothing.	15	2	Five-story brick.	Loss, $27.00. Recall 8 02 p. m.; unknown.
Sunday 30	427	.....	11.04	526 W. Saratoga st	Thomas Kenney	Dwelling.	.....	.....	Three-story brick.	Loss, $8.00. Recall 11.08 p. m.; lighted gas jet igniting curtains.
Sunday 30	Si-l't	.....	5.03	1211 W. Cross st.	Robt. Harrington.	Dwelling.	10	.....	Two-story brick.	Loss, $15.00; unknown.

Sunday	30	Si-l't	.....	8.40	1209 W. Cross st.	James W. Donnelly.	Dwelling.	10	.....	Two-story brick.	Loss, $35.00; explosion of a coal-oil lamp.
May.												
Monday	1	Si-l't	10.30	.....	908 N. Mount st.	James Pentor.	Dwelling.	.....	10	Three-story brick.	Loss, none; upsetting of gasoline stove.
Monday	1	Si-l't	.....	4.40	915 Fawn st.	Joseph Cohen.	Tenement.	16	.....	Two-story brick.	Loss, $15.00; unknown.
Monday	1	Si-l't	.....	5.20	1308 Hanover st.	Paul Hiebold.	Dwelling.	.....	6	Two-story brick.	Loss, $43.75; overflow of gasoline stove.
Tues'y	2	341	2.04	.....	1119 N. Charles st.	Mrs. Mary Rodgers.	Dwelling.	.....	4	Three-story brick.	Loss, $40.75. Recall 2.29 a. m.; spontaneous combustion
Tues'y	2	152	.....	6.24	232 S. Broadway.	Arthur Schlegel	Stove store and dwelling	5	3	Three-story brick.	Loss, $69.08. Recall 6.55 p. m.; electric wire.
Tues'y	2	Si-l't	.....	6.35	Foot of Broadway.	Capt. Edward Moon.	Schooner Caradora.	16	.....	.....	Loss, $50.00; lightning.
Tues'y	2	232	.....	9.23	203 N. Bond street	Edward Curran.	Dwelling.	.....	.....	Three-story brick.	Loss, $15.45. Recall 9.45 p. m.; unknown
Tues'y	2	Si-l't	.....	5.40	502 W. Fayette st.	Miss Neta Murray.	Dwelling.	.....	.....	Four-story brick.	Loss, $15.00; lace curtain igniting while lighting lamp.
Wedn'y	3	143	9.32	.....	300 S. Eden street	Hyman Glaser.	Tenement.	3	3	Three-story brick.	Loss, $38.00. Recall 9.45 a. m.; filling stove while same was lighted.
Wedn'y	3	142	.....	6.11	401 S. High street	A. Blumenthal.	Tenement.	.....	3	Two-story and attic brick.	Loss, $5.00. Recall 6.23 p. m.; fireworks.

RECORD OF FIRES AND ALARMS FOR THE YEAR ENDING DECEMBER 31, 1899.

DATE.	BOX.	A.M.	P.M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Wedn'y 3	Si-l't	.....	10.55	211 S. Durham st.	Stephen Jones.	Dwelling.	.....	3	Two-story brick.	Loss, none; burning chimney.
Thurs'y 4	234	6.15	.....	227 S. Ann street.	Antony Walker.	Dwelling.	.....	.....	Two-story brick.	Loss, $45.00. Recall 6.22 a m.; leaking gasoline tank.
Thurs'y 4	432	.....	2.09	882 Ryan street.	James Bichen.	Shed.	10	.....	One-story frame.	Loss, none. Recall 2.18 p. m.; pot of tar boiling over.
Thurs'y 4	472	.....	3.41	1809 Lorman st.	Mrs. Mary Dorsey.	Dwelling.	8, 13, 14 2 Chem.	10	Two-story brick.	Loss, $175.00. Recall 4.59 p. m.; unknown.
Thurs'y 4	183	.....	8.48	Chesapeake and O'Donnell sts.	.....	Open lot.	.....	.....	.....	Loss, none. Recall 8.53 p. m; unknown.
Thurs'y 4	Si-l't	.....	5.03	2206 Maryland ave	Mrs. Henry S. King.	Dwelling.	.....	.....	Three-story brick.	Loss, none; smoke from chimney.
Thurs'y 4	Si-l't	.....	11.35	1513 Lafayette ave	Samuel McGlennan.	Rubbish in a barrel.	.....	.....	.....	Loss, none; unknown.
Friday 5	285	3.40	.....	314 Harford ave. extended.	Amelia Digelman.	Saloon and dwelling.	19 and 5 6 Chem.	7	Three-story brick.	Loss, $515.90. Recall 4.36 a. m.; unknown.
Friday 5	231	11.55	.....	308 N. Bond street	Wm. Shillenger	Kitchen.	.....	.....	One-story frame.	Loss, $25.64. Recall 12.07 p. m.; overheated stove.
Friday 5	264	.....	9.55	510 N. Caroline st.	James Wilson.	Shed and stable.	6, 9	5	One-story frame.	Loss, $105.75. Recall 10.38 p. m.; unknown.

.....	.....	.....	.....	512 N. Caroline st.	John Suan.	Shed and stable.	.....	.....	One-story frame.	....
.....	.....	.....	.....	514 N. Caroline st.	Richard Schmall	Shed and stable.	.....	.....	One-story frame.	....
Satur'y	6	175	12.39	.....	222 S. Duncan alley.	Chas. Schroeder	Shed.	5, 11	3	.... Loss, $47.85. Recall 1.11 a. m.; spontaneous combustion.
Satur'y	6	335	.....	6.45	....	....	....	.....	.....	..... Loss, none. Recall 6.54 p. m.; false alarm.
Satur'y	6	445	.....	11.28	....	....	....	.....	.....	.... Loss, none. Recall 11.37 p. m; false alarm.
Satur'y	6	Sp c'l	....	10.15	204 Grindall st.	James T. Jones.	Dwelling.	.....	.....	Two-story brick. Loss, $13.00; explosion of gasoline stove.
Sunday	7	356	1.17	.....	241 Laurens st.	Christian H. Eisenbrandt.	Dwelling.	7, 13	11	Three-story brick. Loss, $35.00. Recall 1.41 a. m.; unknown.
Sunday	7	Si-l't	10.35	.....	1511 E. Eager st.	Henry Fuhi.	Dwelling.	9	.....	One-story brick. Loss, $10.00; overheated stove-pipe.
Mond'y	8	157	.....	10.22	1602 Lancaster st.	John Kalinowski.	Tenement.	.....	3	Three-story brick. Loss, $53.49. Recall 10.58 p. m.; filling gasoline stove while lighted.
Tues'y	9	Si-l't	.....	7.08	217 N. Howard st.	Henry Beck.	Furniture store.	.....	.....	Five-story brick. Loss, none; electric wire.
Wedn'y	10	145	4.24	.....	19 S. Central ave.	Harris Fralinski.	Tenement.	3	3	Three-story brick. Loss, $25.00. Recall 4.37 a. m.; explosion of coal-oil stove.

DATE.	BOX.	A.M.	P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Wedn'y 10	187	.....	2.27	601 and 603 Luzerne st.	Napoleon Woolford.	Oakum factory	.....	.....	Two-story brick.	Loss, none. Recall 3.04 p. m.; sparks from picker.
Wedn'y 10	54	.....	5.23	801 Hanover st.	Thomas J. Welch	Shed.	.....	6	One-story frame.	Loss, $15.00. Recall 5.33 p. m.; explosion of gasoline stove.
Wedn'y 10	Si-l't	.....	8.10	920 N. Calhoun st.	Mrs. Alice Connelly.	Dwelling.	.....	10	Three-story brick.	Loss, none; exploded coal-oil lamp thrown on roof.
Wedn'y 10	363	.....	10.09	.....	.....	.....	.....	.....	.....	Loss, none. Recall 10.19 p. m.; false alarm.
Thurs'y 11	Si-l't	.....	8.02	1226 Aisquith st.	Henrietta Stanford.	Dwelling.	.....	5	Three-story brick.	Loss, none; upsetting gasoline stove
Thurs'y 11	712	12.28	.....	Falls road.	Mt. Vernon Cotton Duck Mill Co.	Storage-house	18, 21 Chem. 2	5, 9, 11	One story stone.	Loss, $9,936.62. Recall 9.14 a. m. May 12; incendiary
Thurs'y 11	2d alm	12.53	.....	Falls road.	N. C. R. R. Co.	Box-car.	.....	.....	.....	.....
Thurs'y 11	393	12.48	.....	.....	.....	.....	.....	.....	.....	Loss, none; box pulled for preceding fire.
Thurs'y 11	145	.....	8.49	1117 Watson st.	P. Liastoniski.	Dwelling.	3	3	Two-story brick.	Loss, $91.35. Recall 9.08 p. m.; bedclothing igniting from coal oil lamp.

Thurs'y 11	Si-l't	.....	8.40	511 W. Lexington st.	Mrs. Emily Shintz.	Saloon and dwelling.	1	.....	Three-story brick.	Loss, $39.70; unknown.
Thurs'y 11	621	.....	11.45	Foot of Cross st.	Coast Pigeon Manf. Co.	Covered wh'rf	.....	.....	One-story frame.	Recall 7.59 a. m. May 12; unknown.
Thurs'y 11	2d alm	.....	11.51	Foot of Cross st.	Hallek A. Penrose, Manager Hoagton & Co.	Storage of canned goods	1, 2, 3, 4, 7, 10	1, 2, 6	Three-story brick.	Loss, $31,373.89.
Thurs'y 11	3d alm	.....	11.54	Foot of Cross st.	.....	Steamer Sue.	12, 15, 16, 17	.....	....	....
Thurs'y 11	.....	.....	.....	Foot of Cross st.	Capt. Geo. Sheppard.	Pungy James S. Cleaveland	.....	.....	.....	.....
Friday 12	373	.....	12.52	616 Patterson ave.	Unoccupied.	Store and dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 1.05 a. m.; house filled with smoke.
Friday 12	155	.....	6.01	250 S. Eden st.	Rebecca Cohen.	Grocery store and dwelling	.....	.....	Three-story brick.	Loss, none. Recall 6.09 p. m.; defective coal-oil stove.
Friday 12	238	.....	11.08	903 N. Gay st.	Morris Fetterman.	Gents' furnishings and dwelling.	.....	....	Three-story brick.	Loss, $1,003.70. Recall 11.50 p. m.; unknown.
Satur'y 13	523	.....	8.26	423 W. Conway st.	Mrs. Caroline Hartefelder.	Dwelling.	15	.....	Two and a-half story brick.	Loss, none. Recall 8.37 p. m.; cleaning kid gloves with gasoline.
Satur'y 13	43	.....	9.50	10 Penn st.	Rebecca Jackson.	Dwelling.	15	.....	Three-story brick.	Loss, $77.65. Recall 10 04 p. m.; explosion of can of gasoline.
Satur'y 13	12	.....	8.44	422 E. Baltimore street.	Louis E. Dietzer	Station'y store	.....	1	Three-story brick.	Loss, $27.56. Recall 8.54 p. m.; lighted gas jet igniting drapery.

DATE.	BOX.	A.M.	P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Satur'y 13	312	.....	10.17	216 Park ave.	Lawrence Meyers.	Shoe store and dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 10.25 p. m.; unknown.
Satur'y 13	318	.....	10.28	.....	.....	.....	.....	.....	.....	Loss, none. Recall 10.36 p. m.; false alarm.
Satur'y 13	Si-l't	.....	9.42	1416 Decatur st.	George Bender.	Dwelling.	17	.....	Two-story brick.	Loss, $30.00. Unknown.
Satur'y 13	Si-l't	.....	10.07	West side of Howard st., op. Center st.	Unoccupied.	Baltimore City College.	7	.....	Four-story brick.	Loss, none. Unknown.
Satur'y 13	Spc'l	.....	11.50	1128 Harford ave.	O. J. Oleson.	Paint store & dwelling.	.....	.....	Three-story brick.	Loss, $26.00. Lighted gas jet igniting curtains.
Sunday 14	48	.....	4.55	203 & 203½ Frederick ave.	Peter Hefner.	Blacksmith, wheelwright & dwelling.	14, 1 Chem.	10	Three-story brick.	Loss, $87.75. Recall 5.54 p. m.; defective chimney.
Sunday 14	262	.....	9.53	1636 E. Chase st.	John N. Foster.	Dwelling.	9	.....	Two-story brick.	Loss, $96.00. Recall 10.04 p. m.; dropping a coal-oil lamp.
Mond'y 15	421	.....	9.07	756 Waesche st.	Geo. M. Lancaster.	Dwelling.	8	2	Two-and-a-half story brick.	Loss $50.70. Recall 9.40 p. m.; unknown.
Mond'y 15	Si-l't	.....	6.23	1612 Shakespeare street.	John Maicejeski	Tenement.	16	.....	Two-story brick.	Loss none. Overflow of coal oil from stove.

Tuesd'y 16	458	5.59	.....	626 W. Lafayette avenue.	Henry A. Erb.	Dwelling.	13	10	Three-story brick.	Loss $271.30. Recall 6.18 a. m.; explosion of gasoline stove.
Tuesd'y 16	Si-l't	.....	12.47	1123 E. Lombard street.	Leman Lockman.	Tenement.	.....	.....	Three-story brick.	Loss none. Smoking stove.
Tuesd'y 16	Si-l't	.....	8.10	429 N. Gay street.	Isadore Serf and others.	Hat store and dwelling.	6	.....	Three-story brick.	Loss none. Electric wire.
Wedn'y 17	171	.....	8.00	2021 Cambridge st.	Charles Dolby	Tenement.	.....	.....	Three-story brick.	Loss none. Recall 8.04 p. m.; smoking stove.
Thurs'y 18	379	12.17	.....	1511 to 1523 Guilford ave.	Crown, Cork & Seal Co.	Warehouse.	6, 18, 19	4, 5	Five-story brick.	Loss $343.52. Recall 1.41 a. m.; electric wire.
Thurs'y 18	2d alm	12.30	.....	.....	.....	.....	.....	.....	.....	.....
Thurs'y 18	373	3.02	.....	1147 N. Fremont avenue	Chu Ock.	Laundry and dwelling.	13, 2 Chem.	10	Three-story brick.	Loss $355.52. Recall 4.40 a. m.; unknown.
Friday 19	162	8.57	.....	722 S. Wolfe st.	James Stanton.	Saloon and tenement.	.....	3	.....	Loss $90.00. Recall 9.15 a. m.; sparks from chimney.
Friday 19	441	.....	8.16	12 W. Baltimore st	Giles W. Quarles	Straw crate.	4	.....	In alley.	Loss none. Recall 8.25 p. m.; unknown.
Satur'y 20	123	.....	5.07	417 & 419 Exchange alley.	James H. Mueller.	Broom factory	.....	1	Two-story brick.	Loss none. Recall 5.23 p. m.; burning of a pot of sulphur.
Satur'y 20	Si-l't.	.....	3.15	102 N. Frederick st	Unoccupied.	Dwelling.	4	.....	Two-and-a-half-story brick.	Loss $15.00. Sparks from chimney.
Sunday 21	443	.....	12.49	.....	.....	.....	.....	.....	.....	Loss none. Recall 12.51 p. m.; false alarm.

RECORD OF FIRES AND ALARMS FOR THE YEAR ENDING DECEMBER 31, 1899.

DATE.	BOX.	A.M.	P.M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Sunday 21	365	.....	5.10	610, 612, 614 Greenwillow street.	Chris. Berger.	Stable.	7, 8, 13	4	Two-story brick & frame.	Loss $351.95. Recall 6.27 p. m.; unknown.
Sunday 21	Si-l't.	.....	1.20	Carroll Switch.	Burns & Russell	Shed.	10	.....	One-story frame.	Loss $10.00. Set on fire by tramps.
Sunday 21	Si-l't.	.....	5.36	110 Sharp street.	Chas. W. Torsch & Bros.	Packing cases	15	.....	In alley in rear of a six-story brick	Loss none. Sparks from chimney.
Mond'y 22	368	9.11	.....	723 Pierce street.	Mrs. A. Parker.	Dwelling.	.....	.....	Two-and-a-half story brick.	Loss none. Recall 9.33 a. m.; house filled with smoke.
Mond'y 22	Si-l't.	.....	1.00	Foot of China st.	Unoccupied.	Shed.	2	.....	One-story frame.	Loss $5.00. Unknown.
Tues'y 23	167	.....	7.47	405 S. Broadway.	E. Langgood.	Shoe store and dwelling.	.....	3	Three-story brick.	Loss $27.30. Recall 8.02 p. m.; trimming in window ignited by gas jet.
Tues'y 23	145	.....	8.14	1169 E. Lombard street.	Magdaline Aull.	Dwelling.	3	.....	Two-story and attic brick.	Loss $71.47. Recall 8.31 p. m.; unknown.
Wedn'y 24	Si-l't	.....	5.45	6 W. Randall st.	William Pardoe.	Dwelling.	.....	6	Three-story brick.	Loss none; explosion of gasoline stove.
Wedn'y 24	Spc'l	.....	10.00	210 Hughes street.	Geo. L. De Ved.	Iron foundry.	.....	.....	Two-story brick.	Loss $5.00; sparks from cupola.
Thurs'y 25	Si-l't	6.45	.....	1106 E. Pratt st.	Morris Schneider.	Tenement.	11	.....	Three-story brick.	Loss $25.00; children playing with matches.

Thurs'y 25	451	6.12	.....	614½ Stockton st.	Chas. Gordon.	Dwelling.	8, 13	10	Two-story brick.	Loss $240.25. Recall 6.55 a. m.; unknown.
Thurs'y 25	Si-l't	.....	4.10	803 Hollins street.	F. Walters.	Dwelling.	.....	.....	Three-story brick.	Loss none; burning of a pot of meat.
Thurs'y 25	Si-l't	.....	6.30	2234 Cambridge st.	James Chaney.	Dwelling.	.....	.....	Two-story brick.	Loss $3.25; careless handling matches.
Thurs'y 25	146	.....	8.10	821 E. Pratt st.	Simon Shinder.	Shoe store and tenement.	3	.....	Three-story brick.	Loss $9.00. Recall 8.18 p. m.; carelessness with gasoline.
Friday 26	218	.....	12.58	23 N. High st.	Jos. Smuckler and others.	Tailor shop & dwelling.	3	.....	Two-and-a-half story brick.	Loss $22.50. Recall 1.10 p. m.; lounge ignited by lighted match.
Friday 26	472	.....	9.15	1403 N. Fulton av.	Mrs. E. Heins.	Dwelling.	.....	.....	Two-story brick.	Loss none. Recall 9.31 p. m.; reflection of gaslight through window.
Satur'y 27	191	8.22	.....	1028 S. Curley st.	Geo. W. Leimback.	Feed store.	11	.....	Two-story brick.	Loss $20.00. Recall 8.35 a. m.; lighted match thrown on floor.
Satur'y 27	Sp c'l	9.30	.....	230 N. Fremont av	Wm. E. Collier.	Laundry and dwelling.	.....	.....	Three-story brick.	Loss $18.00; explosion of gasoline stove.
Satur'y 27	Si-l't	.....	11.30	737 W. Baltimore street.	Mrs. H. Frost.	Millinery store and dwelling.	8	.....	Three-story brick.	Loss $27.50; woodwork ignited by lighted gas jet.
Sunday 28	484	2.19	.....	44 Louden avenue.	Harry Whittaker.	Dwelling.	1 chem.	.....	Two-story frame.	Loss $48.00 Recall 2.44 a. m.; explosion of gasoline lamp.

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Sunday 28	326	.....	8.40	1523 Pennsylvania avenue.	Victor Sheer.	Shoe store and dwelling.	.....	.....	Three-story brick.	Loss $5.00. Recall 8.48 p. m.; person stepping on match
Mond'y 29	335	1.55	.....	1221 Madison ave.	Dr. Flora Brewster.	Stable and dwelling.	7, 8, 13	4	Two and three-story brick.	Loss $501.05. Recall 4.05 a. m.; spontaneous combustion.
Mond'y 29	638	3.09	.....	B. & O. R. R. Yard, Locust Point.	Balto. & Ohio R. R. Co.	Box car.	.....	6	.....	Loss none. Recall 4.45 a. m.; unknown.
Mond'y 29	217	.....	7.45	Western Maryland Yard, Hillen and Exeter sts.	Western Md. R. R. Co.	Truck of car.	6	.....	.....	Loss none. Recall 8.05 p. m.; grease ignited by lighted torch.
Mond'y 29	313	.....	8.54	14 E. Franklin st.	Unknown.	Dwelling.	.....	4	Four-story brick.	Loss none. Recall 9.06 p. m.; smoke from chimney.
Mond'y 29	23	.....	10.17	1423 May street.	Unoccupied.	Dwelling.	.....	3	Two-story brick.	Loss $40.00. Recall 10.33 p. m.: incendiary.
Tuesd'y 30	Si-l't	8.41	.....	2309 Eastern ave.	Louis Reinecker	Dwelling.	11	.....	Three-story brick.	Loss none; explosion of gasoline stove.
Tuesd'y 30	Si-l't	10.19	.....	2232 Eastern ave.	John Molkern.	Harness factory & dwelling.	.....	.....	Three-story brick.	Loss none; smoke from coal-oil stove.

Tuesd'y 30	31	.....	7.10	322 N. Calvert st.	David Quenzel.	Dwelling.	4	.....	Three-and-a-half story brick.	Loss $5.00. Recall 7.19 p. m.; waste paper ignited by coal-oil stove.
Tuesd'y 30	Spc'l	.....	4.15	642 Smith street.	Mrs. Annie Stannard.	Dwelling.	.....	.....	Three-story brick.	Loss $15; unknown.
Wedn'y 31	266	9.30	.....	1423 Jefferson st.	Annie Mueller.	Bakery and dwelling.	.....	5	Three-story brick.	Loss, $10.00. Recall 9.51 a. m.; explosion of gasoline stove.
Wedn'y 31	489	11.25	.....	708 Payson st.	S. B. Horcuss.	Dwelling.	.....	10	Two-story brick.	Loss $41.75. Recall 11.49 a. m.; unknown.
Wedn'y 31	215	.....	3.29	1121 E. Lexington street.	Abraham Korus.	Second-hand store and dwelling.	6	.....	Three-story brick.	Loss $14.70. Recall 3.38 p. m; explosion of gasoline stove.
Wedn'y 31	212	.....	9.15	100 N. Frederick street.	Jacob Durm.	Oyster packing house.	.....	1	Three-story brick.	Loss none. Recall 9.25 p. m.; overheated stove.
Wedn'y 31	269	.....	9.27	Open lot, Chester st. and Collington avenue.	Dump.	.....	6 Chem.	.....	.....	Loss none. Recall 11.00 p. m.; boys playing with fire.
Wedn'y 31	Sl't	7.50	.....	18 E. West street.	Thomas P. Gaul.	Dwelling.	.....	6	.....	Loss $25.00; children playing with fire.
June.										
Thurs'y 1	Sl't	6.54	.....	17 N. Exeter st.	Masha Machoritz.	Confectionery store and dwelling.	6	.....	Two and a-half story brick.	Loss none; explosion of coal oil stove.
Thurs'y 1	634	.....	1.03	1023 E. Fort ave.	Jas. H. Hyland.	Dwelling.	17	.....	Two-story brick.	Loss $10.00. Recall 1.10 p. m.; overflow of gasoline stove.

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Thurs'y	1	479	.....	10.17	1630 Bruce street.	Daniel Baldwin.	Dwelling.	.....	.....	Two-story brick.	Loss $5.00. Recall 10.28 p. m.; spark from match.
Friday	2	Si-l't	.....	3.30	202 N. Frederick st.	R. Friedman.	.....	.....	1	Two-and-a-half-story brick.	Loss, $7.50; overheated stove-pipe.
Satur'y	3	Sp c'l	.....	10.20	911 Peach alley.	Charles Young.	Dwelling.	.....	.....	Two-story and attic brick.	Loss, $15.00; upsetting lighted candle
Sunday	4	259	11.03	.....	1113 Valley st.	J. O. Moore.	Dwelling.	.....	5	Three-story brick.	Loss, $30.00. Recall 11.15 a. m.; altar ignited from lighted candle.
Sunday	4	535	.....	7.16	1301 Glyndon ave.	Webster Barringer.	Dwelling.	10, 14	6	Two-story brick.	Loss, $233.27. Recall 7.50 p. m.; unknown.
Sunday	4	Si-l't	.....	4.30	1339 S. Charles st.	August Meyers.	Dwelling.	.....	6	Two-story brick.	Loss, $136.50; unknown.
Mond'y	5	54	10.00	.....	601 S. Howard st.	Mrs. Annie Cooper.	Dwelling.	2, 10, 15	6	Three-story brick.	Loss, $415.00. Recall 10.56 a. m.; explosion of gasoline stove.
Mond'y	5	187	.....	1.41	2519 Eastern ave.	Olive Stoem.	Dwelling.	.....	.....	Two-story brick.	Loss, none. Recall 1.45 p. m.; leaking gasoline stove.
Mond'y	5	Si-l't	9.05	.....	Roland, near 4th ave.	St. Thomas Catholic Church.	Stable.	.....	9	One-story frame.	Loss, $5.00; sparks from burning brush.

Mond'y	5	395	.....	2.16	533 Falls Road.	George W. Cook.	Dwelling.	.....	.....	Two-story brick.	Loss, none. Recall 2 29 p. m.; explosion of gasoline stove.
Mond'y	5	5	.....	4.18	N. E. Cor. Light and German sts.	J. P. Shannon, manager.	Hotel Carrollton.	4	.....	Seven-story brick.	Loss, none. Recall 4.28 p. m.; grease ignited by lighted candle.
Mond'y	5	561	.....	9.24	151 Stockholm st.	John Meil.	Stable.	.....	.....	One-story frame.	Loss, none. Recall 9.32 p. m.; unknown.
Tues'y	6	244	.....	12.19	916 Hillman st.	John Mellaney.	Dwelling.	.....	.....	Two-story and attic brick.	Loss, $35.00. Recall 12.38 p. m.; sparks from chimney.
Tues'y	6	143	.....	3.56	1118 E. Pratt st.	Simon Snyder.	Grocery store and dwelling.	3	3	Two-story and attic brick.	Loss, $45 00. Recall 4.09 p. m.; explosion of coal-oil stove.
Tues'y	6	Si-l't	.....	3.50	1932 Mt. Royal Terrace.	Wallace Stebbins.	Dwelling.	.....	.....	Three-story brick.	Loss, none; burning chimney.
Tues'y	6	545	.....	4.22	1159 Nanticoke st.	Louis Schummer.	Dwelling.	10	.....	Two-story brick.	Loss, $10.00. Recall 4.33 p. m.; upsetting gasoline stove
Tues'y	6	Si-l't	.....	9.40	N. E. Cor. Greene and Lombard sts	Maryland University College	Medical College.	15	.....	Three-story brick.	Loss, $46.80. Escaping gas.
Tues'y	6	Si-l't	.....	8.40	923 Whatcoat st.	James Rinckley.	Dwelling.	.....	.....	Two-story brick.	Loss, $5.00; unknown.
Wedn'y	7	161	9.26	.....	1737 Aliceanna st.	Julius Rasiak.	Tin-shop and dwelling.	.....	3	Two-story brick.	Loss, $40.00. Recall 9.42 a. m.; explosion of gasoline stove.
Wedn'y	7	Spc'l	3.00	.....	821 Raborg st.	Blanche Reynolds.	Dwelling.	.....	.....	Two-and-a-half-story brick.	Loss, $19.00. Lighted cigarette ignited curtain.

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Wedn'y 7	428	.....	8.05	14 N. Schroeder st	Diven Bros.	Iron foundry.	.....	.....	One-story brick.	Loss, none. Recall 8.19 p. m.; unknown.
Wedn'y 7	381	.....	10.42	1418 Parrish alley.	Walter Stewart.	Dwelling.	.....	10	Two-story brick.	Loss, $10 00. Recall 10.54 p. m.; upsetting coal-oil lamp.
Thurs'y 8	252	.....	12.13	1110 Proctor st.	Mrs. Mary Scott.	Dwelling.	.....	.....	Two-story brick.	Loss, none. Recall 12.27 p. m.; explosion of gasoline stove.
Friday 9	475	2.56	.....	577 Vincent alley.	Alice Brown.	Dwelling.	.....	10	Two-story brick.	Loss, $14.25. Recall 3.15 a. m.; upsetting coal-oil lamp.
Friday 9	415	.....	8.45	19 and 21 N. Eutaw street.	Simon Stein.	Restaurant.	.....	2	Three-story brick.	Loss, $10.00. Recall 9.02 p. m.; electric wire.
Satur'y 10	162	.....	7.24	801 S. Ann st.	Henry Witting.	Grocery store and dwelling	.....	.....	Two-story and attic brick.	Loss, none. Recall 7.29 p. m.; carelessness.
Satur'y 10	427	.....	8.48	Lexington and Greene sts.	.....	.....	Market house.	.....	One-story frame.	Loss, none. Recall 9.01 p. m.; electric converter.
Satur'y 10	Si-l't	5.55	.....	42½ Belair road.	Conrad Burkhardt.	Dwelling.	6 Chem.	.....	Two-story brick.	Loss, none. Explosion of coal-oil stove.

Sunday 11	56	9.08	.....	118 Hamburg st.	Wm. Whelman.	Shed.	.....	6	One-story frame.	Loss, $40.00. Recall 9.19 a. m.; upsetting gasoline stove
Sunday 11	231	.....	12.11	1623 Jefferson st.	Henrietta West.	Dwelling.	9	.....	Three-story brick.	Loss, $30.50. Recall 12.25 p. m.; unknown.
Sunday 11	393	.....	2.16	305 Cedar ave.	John H. Walker.	Dwelling.	.....	.....	Two-story brick.	Loss, $11.00. Recall 2.26 p. m.; explosion of coal-oil stove.
Sunday 11	463	.....	4.43	441 S. Gilmor st.	Lawrence Hasenrather.	Notion store and dwell'g.	.....	.....	Three-story brick.	Loss, $10.00. Recall 4.55 p. m.; spontaneous combustion.
Mond'y 12	141	9.15	.....	819 Eastern ave.	Camille Duka.	Tenement.	.....	.....	Two-story and attic brick.	Loss, none. Recall 10.24 a. m.; smoking coal-oil stove.
Mond'y 12	393	11.22	.....	273 Cedar ave.	Philip Shea.	Dwelling.	.....	.....	Two-story and attic brick.	Loss, none. Recall 11.41 a. m.; explosion of gasoline stove.
Wedn'y 14	243	11.02	.....	738 Harford ave.	George Ruff.	Dwelling.	6	5	Three-story brick.	Loss, $29.90. Recall 11.22 a. m.; fireworks.
Wedn'y 14	Si-l't.	.....	2.35	106 N. Eutaw st.	Jacob Castleberg	Jewelry store	.....	.....	Three-story brick.	Loss, none. Gas ignited by lighted match.
Thurs'y 15	Si-l't	.....	3.55	Pier 7 Locust Pt.	.....	Steamship "Dartmoor."	.....	.....	.....	Loss, none; spontaneous combustion.
Thurs'y 15	Si-l't	.....	8.14	114 S. High st.	William Gluck.	Shed.	3	.....	One-story frame.	Loss, $15.00; explosion of gasoline lamp.

DATE.	BOX.	A.M.	P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE	H. & L. IN SERVICE	BUILDING.	REMARKS.
Friday 16	161	.....	4.56	1816 Canton ave.	Frank Wernoski.	Shoe store and tenement.	.....	3	Two-story and attic brick.	Loss, $15.70. Recall 5.08 p. m.; carelessness with gasoline stove.
Friday 16	482	.....	6.30	2010 Christian st.	Joseph Goldiner	Dwelling.	.....	.....	Two-story and attic brick.	Loss, none. Recall 6.45 p. m.; explosion of gasoline stove.
Friday 16	151	.....	9.53	117 S. Dallas st.	Sarah Smith.	Dwelling.	.....	.....	Two story and attic brick.	Loss, $5.00. Recall 10.05 p. m.; fireworks.
Satur'y 17	Sp c'l	.....	4.00	2032 Bank st.	John O'Neill.	Dwelling.	.....	.....	Three-story brick.	Loss, $42.00. Children playing with fire-crackers.
Sunday 18	613	5.14	.....	508 Hughes st	Oliver Reeder.	Copper works.	2, 12, 15, 16	6	Two-story brick.	Loss, $1,408.77. Recall 6.53 a. m.; unknown.
Mond'y 19	621	7.40	.....	S. W. Cor. Cross and Covington sts.	American Label Co.	Print'g works.	2, 3, 4, 7, 10, 12, 15	2, 6	Three-story brick.	Loss, $8,661.48. Recall 11.11 a. m.; explosion of barrel of varnish.
Mond'y 19	2d alm	7.47	.....	.....	.....	.....	16, 17	.....	.....	.....
Mond'y 19	3d alm	7.50	.....	.....	.....	.....	.....	.....	.....	.....

Mond'y 19	26	9.12	.....	713 N. Eden st.	James F. McCabe.	Dwelling.	.....	.....	.....	Three-story brick.	Loss, none. Recall 9.21 a. m.; explosion of coal-oil stove.
Mond'y 19	Spc'l	10.00	.....	1105 Ensor st.	Unoccupied.	Dwelling.	.....	5		Three-story brick.	Loss, none; rubbish set on fire by Joseph Krastle (owner).
Mond'y 19	297	.....	2.20	310 E. 21st st.	Henry C. Ward.	Dwelling.	.....	11		Three-story brick.	Loss, $60.00. Recall 2.24 p. m.; fireworks.
Mond'y 19	155	.....	5.00	226 and 228 Dallas st.	D. Gross and F. Lamb.	Dwelling.	.....	.....	.....	Two-and-a-half-story brick.	Loss, $23.94. Recall 5.15 p. m.; sparks from chimney.
Mond'y 19	623	.....	9.09	21 E. Henrietta st.	Frank Millikin.	Dwelling.	.....	.....		Two-and-a-half-story brick.	Loss, $19.70. Recall 9.19 p. m.; explosion of coal-oil lamp.
Tuesd'y 20	623	.....	5.30	108 Henrietta st.	Annie Handle.	Dwelling.	.....	.....		Three-story brick.	Loss, $11.25. Recall 5.40 p. m.; explosion of gasoline stove.
Tuesd'y 20	373	.....	8.52	603 Sewell street.	George Bassett.	Store.	8, 7, 13, 10			Two-and-a-half-story brick.	Loss, $1,277. Recall 10.52 p. m.; explosion of fireworks.
Tuesd'y 20	...	.....	.....	601 Sewell street.	George Bassett.	Dwelling.	.....	.....		Two-and-a-half-story brick.	.....
Wedn'y 21	541	.....	12.48	852 S. Eutaw st.	Albert Levy.	Stable.	2, 10, 15	6		Two-story brick.	Loss, $103.00. Recall 1.24 p. m.; unknown.
Wedn'y 21	272	.....	3.58	1200 and 1202 Peabody street.	Alex. Albrecht.	Provision and grocery store	9, 19	5		Two-story brick.	Loss, $132.55. Recall 4.33 p. m.; explosion of gasoline stove.

DATE.	BOX.	A. M.	P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Wedn'y 21	Si-l't	.....	4.00	S. E. cor. Monroe and Baltimore streets.	All Saints' Mem. Church.	Church.	14	.....	One-story stone.	Loss, none; set on fire by boys.
Wedn'y 21	337	.....	9.15	524 Dolphin street	Levin Gibson.	Dwelling.	....	.....	Three-story brick.	Loss, none. Recall 9.19 p. m.; bagging ignited from lighted lamp.
Thurs'y 22	38	3.58	.....	1913 Pennsylvania avenue.	Mrs. W. A. Schanze.	Store and dwelling.	13	10	Two-story brick.	Loss, $197.00. Recall 4.10 a. m.; explosion of fireworks.
Thurs'y 22	Si-l't	.....	2.55	1416 W. Lafayette avenue.	Geo. E. Gill.	Dwelling.	....	10	Two-story brick.	Loss $50.00; child stepping on match
Thurs'y 22	575	.....	4.20	2133 Vine street.	August Haupt.	Dwelling.	14	10	Two-story brick.	Loss, none. Recall 4.48 p. m.; explosion of gasoline stove.
Friday 23	471	8.48	.....	314 N. Fulton ave.	Mrs. Mary Shipley.	Dwelling.	....	10	Three-story brick.	Loss, $127.50. Recall 9.00 a. m.; children playing with matches.
Friday 23	238	.....	12.30	1625 Abbott street.	Wenzel Koet.	Dwelling.	.....	.....	Two-story brick.	Loss, $10.85. Recall 12.39 p.m.; explosion of coal-oil lamp.
Friday 23	Si-l't	1.34	.....	305 King street.	Fred. Bergner.	Manufacturer of novelties.	15	.....	Three-story brick.	Loss, none; sparks from boiler.

Friday	23	638	.....	8.50	B. & O. freight yard, Locust Pt.	B. & O.R. R.Co.	Freight car.	12, 17	.....	Loss, $28.00. Recall 9.42 p. m.; unknown.
Friday	27	Si-l't	.....	10.05	Foot of Lowman street.	A. Shaw.	Dwelling.	17	Two-story brick.	Loss, $20.00. Unknown.
Satur'y	24	Si-l't	5.44	.....	608 Bradford st.	Lewis Hayes.	Dwelling.	11	Two-story brick.	Loss, none; overflow from coal-oil stove
Satur'y	24	18	9.10	.....	2802 Boston street.	Wm. E. Mencke	Saloon and dwelling.	11	Two-story-and-attic brick.	Loss none. Recall 9.19 a. m.; explo- of gasoline stove.
Satur'y	24	337	.....	8.26	1300 Division st.	Robert Lane.	Dwelling.	.....	Three-story brick.	Loss, $10.00. Recall 8.34 p. m.; lounge ignited by lighted coal-oil lamp.
Sunday	25	413	.....	7.52	110 W. Baltimore street.	B. Friedman & Co.	Manufac'rs of Clothing.	1, 15	2 Four-story brick.	Loss, $226.00. Recall 8.21 p. m.; unknown.
Sunday	25	527	.....	10.41	314 and 316 West Camden st.	Jerome Joyce.	Hotel.	15	2 Three-story brick.	Loss, $48.75. Recall 11.42 p. m.; overheated range.
Mond'y	26	Si-l't	7.34	.....	Columbia ave. extended.	Weaver & Harman.	Brick Kiln.	10	..... One-story brick.	Loss, $46.88. Unknown.
Tues'y	27	235	12.07	.....	1930 McElderry st.	Frank Meyer.	Dwelling.	5, 9	3 Two-story brick.	Loss, $164.60. Recall 12.51 a. m.; unknown.
Tues'y	27	229	10.28	.....	137 N. Castle st.	Frank Liraca.	Dwelling.	.....	3 Two-story brick.	Loss, $65.00. Recall 10.44 a. m.; overturning gasoline stove.
Wedn'y	28	243	.....	12.02	1016 E. Monument street.	Edward Wilson.	Dwelling.	6	..... Two-story and attic brick.	Loss, $45.00. Recall 12.15 p. m.; fireworks.

RECORD OF FIRES AND ALARMS FOR THE YEAR ENDING DECEMBER 31, 1899.

DATE.	BOX.	A.M.	P.M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Wedn'y 28	142	.....	4.48	400 S. High st.	Henry Captan.	Dwelling.	.....	.....	Two-story brick.	Loss none. Recall 4.57 p. m.; carelessness with gasoline stove.
Wedn'y 28	332	.....	8.55	.....	.....	.....	.....	.....	.....	Loss, none. Recall 9.02 p. m.; false alarm.
Thurs'y 29	68	12.56	.....	Corner Light and Wells sts.	Matthai & Ingram.	Tin factory.	.....	.....	Five-story brick.	Loss, none. Recall 1.16 a. m.; leaking steam valve.
Thurs'y 29	312	1.32	.....	211 Ivy alley.	Petro Hopewell.	Dwelling.	.....	.....	Two-story brick.	Loss, $10.00. Recall 1.44 a. m.; unknown.
Thurs'y 29	713	3.38	.....	2867 N. Fulton ave	Charlie Hing.	Laundry and dwelling.	2 Chem.	10	Three-story frame	Loss, $167.80. Recall 4.12 a. m.; overheated stove.
Thurs'y 29	.....	.....	.....	2865 N. Fulton ave	C. H. Luther.	Bicycle store and dwelling	.....	.....	Three-story frame	.....
Thurs'y 29	Si-l't	.....	1.50	1507 Bank st.	Anna Wagner.	Provis'n store and dwelling	16	.....	Two-story and attic brick.	Loss, $15.00. Unknown.
Thurs'y 29	Si-l't	.....	7.16	233 Rogers ave.	Elizabeth William.	Provis'n store and dwelling	6	.....	Three-story brick.	Loss, $15.00. Stepping on matches.
Friday 30	335	10.44	.....	1225 Madison ave.	Jas. H. Wright.	Dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 10.54 a. m.; wax boiling over.

Friday	30	497	10.55	.....	2811 Pulaski st.	Charles Yost.	Dwelling.	.....	.....	Three-story brick.	Loss, $10.00. Recall 11.10 a. m.; unknown.
Friday	30	184	.....	1.12	2500 Boston st.	Geo. D. Tyler.	Boiler-house.	.....	.....	One-story brick.	Loss, none. Recall 1.21 p. m.; explosion of steam-pipe.
Friday	30	612	.....	4.36	215 Hughes st.	Louis Kolscher.	Dwelling.	.....	6	Three-story brick.	Loss, $26.75. Recall 4.50; unknown.
Friday	30	.....	.....	.....	217 Hughes st.	William Jones.	Dwelling.	.....	.....	Three-story brick.	.....
Friday	30	321	.....	5.39	514 Pennsylvania ave.	K. Pierson & Son.	Second-hand store.	.....	4	Three-story and attic brick.	Loss, $5.00. Recall 5.48 p. m.; unknown.
Friday	30	Si-l't	11.50	.....	810 S. Broadway	Burges Allen.	Sailors' supply store.	16	.....	One-story and attic brick.	Loss, $10.00; fireworks.
Friday	30	Sp c'l	.....	3.00	817 N. Wolfe st.	Frank H. Kaufman.	Dwelling.	.....	.....	Two-story and attic brick.	Loss, $65.00; sparks from smoke-pipe.
Friday	30	Sp c'l	.....	3.00	Falls Road.	Mt. Vernon Cotton Duck Mills	Annex Mills.	.....	.....	Four-story brick.	Loss, none; spontaneous combustion.
July.											
Satur'y	1	Si-l't	.....	4.10	2307 Eastern ave.	Henry Menkens.	Tenement.	11	.....	Three-story brick.	Loss, none; explosion of gasoline stove.
Satur'y	1	612	.....	11.44	210 to 230 Hughes st.	John L. Deved.	Sash-weight foundry.	1, 2, 4, 12, 15, 17	2, 6	Two-story brick.	Loss, $3,163.02. Recall 2.09 a. m.; unknown.
Satur'y	1	2d alm	.....	11.49	.....	.....	.....	.....	.....	.....	.....
Satur'y	1	Sp c'l	.....	11.30	929 Leadenhall st	Mrs. Annie Carter.	Dwelling.	.....	.....	Three-story brick.	Loss, $65.00; can of gasoline igniting.
Sunday	2	172	.....	5.33	2227 E. Pratt st.	Henry Ruhl.	Dwelling.	11	3	Three-story brick.	Loss, $25.00. Recall 5.51 p. m.; fireworks.

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Sunday 2	312	.....	10.15	204 Clay st.	Geo. Esselman.	Mnfr. of Picture Frames.	1	2	Three-story brick.	Loss, none. Recall 10.41 p. m.; cause unknown.
Sunday 2	Si-l't	11.44	.....	281 N. Exeter st.	Louis Loks.	Store and dwelling.	6	.....	Two-story and attic brick.	Loss, $10.00; children playing with matches.
Sunday 2	Si-l't	10.25	.....	Cor. Leadenhall and Stockholm sts.	Maryland Veneer and Basket Works.	Mnfr. of baskets.	.....	6	Two-story and attic brick.	Loss, none; boys playing with matches.
Sunday 2	Sp c'l	11.05	.....	Cor. Leadenhall and Stockholm sts.	Maryland Veneer and Basket Works.	Mnfr. of baskets.	.....	.....	Two-story and attic brick.	Loss, $10.00; sparks from locomotive.
Mond'y 3	143	.....	12.13	1105 E. Pratt st.	Solomon Rabell.	Dwelling.	.....	3	Two-story brick.	Loss, $39.65. Recall 12.38 p. m.; sparks from furnace.
Mond'y 3	313	.....	12.26	S. W. Cor. Charles and Center sts.	Jacob H. Rohr, manager.	Hotel St. James.	1, 2, 4, 7, 8, 15	1, 2, 4, 5	Five-story brick.	Loss, $3,337.10. Recall 3.22 p. m.; unknown.
Monday 3	*	.....	12.31	.....	.....	.....	.....	.....	.....	.....
Monday 3	377	.....	2.23	1732 Maryland ave	George Coffin.	Dwelling.	.....	11	Three-story brick.	Loss, $37.50. Recall 2.40 p. m.; clothing igniting from gasoline stove.
Monday 3	394	.....	4.40	283 Hickory ave.	James Baker.	Dwelling.	.....	.....	Three-story frame	Loss, none. Recall 4.54 p. m.; explosion of gasoline stove.

*General alarm.

Monday	3	Si-l't	.....	4.45	123 S. Gay street.	Unoccupied.	Hooper Building.	4	.....	.....	Loss, none; unknown.
Monday	3	Si-l't	.....	9.10	122 Winter street.	Joseph Fowler.	Dwelling.	.....	6	Two-story brick.	Loss, $25.00; explosion of gasoline stove.
Tuesd'y	4	336	3.31	1.00	407 Tyson street.	Wm. Dandaridy	Dwelling.	1	2	Two-story brick.	Loss, none. Recall 3.51 a. m.; unknown.
Tuesd'y	4	264	3.48	.....	1425 E. Monument street.	John Manley.	Stable.	6, 9	5	Three-story brick.	Loss, $163.29. Recall 4.34 a. m.; unknown.
Tuesd'y	4	493	4.11	.....	2816 Lafayette ave	William Filbert.	Carriage house.	20, 3 Chem.	8	Two-story frame.	Loss, $573.65. Recall 5.22 a. m.; unknown.
Tuesd'y	4	157	8.17	.....	1635 Lancaster st.	Michael Murphy	Dwelling	.....	3	Two-story and attic brick.	Loss, $10.00. Recall 8.30 a. m.; fireworks.
Tuesd'y	4	631	10.44	.....	Corner Leadenhall and Stockholm streets.	Maryland Veneer & Basket Co.	Water closet.	.....	6	One-story frame.	Loss, $10.00. Recall 11.07 a. m.; unknown.
Tuesd'y	4	449	.....	1.36	.....	.....	.....	.....	.....	.....	Loss, none. Recall 1.45 p. m.; false alarm.
Tuesd'y	4	244	.....	2.14	1018 Hillman st.	John Guinan.	Tailor shop and dweling.	.....	5	Three-story brick.	Loss, none Recall 2.25 p. m.; explosion of gasoline stove.
Tuesd'y	4	165	.....	2.45	9 N. Bond street.	J. B. Bortell.	Dwelling.	.....	3	Three-story brick.	Loss, $14.83. Recall 3.05 p. m.; fireworks.
Tuesd'y	4	46	.....	2.55	1532 W. Fayette st.	R. J. Hall.	Grocery store and dwelling	14	.....	Three-story brick.	Loss, $20.00. Recall 3.06 p. m.; fireworks.

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Tuesd'y 4	187	.....	3.10	704 Rose street.	Catherine Vulcan.	Dwelling.	.....	.....	Two-story brick.	Loss, none. Recall 3.21 p. m.; smoking oil stove.
Tuesd'y 4	218	.....	7.31	920 E. Baltimore street.	Goldstein Jacobson.	Saloon and clothing factory.	3	1	Three-story brick.	Loss, $176.00. Recall 7.42 p. m.; unknown.
Tuesd'y 4	382	.....	8.53	2212 Eutaw Place.	Isaac L. George.	Dwelling.	.....	.....	Three-story brick.	Loss, $21.76. Recall 9.10 p. m.; fireworks.
Tuesd'y 4	353	.....	9.05	1900 Mt. Royal Terrace.	Dr. Randolph Shaslin.	Dwelling.	.....	4	Three-story brick and mansard.	Loss, $11.50. Recall 9.41 p. m.; fireworks.
Tuesd'y 4	39	.....	10.44	737 Cumberland st.	C. E. Saunders.	Stable.	.....	.....	One-story frame.	Loss, none. Recall 11.00 p. m.; fireworks.
Tuesd'y 4	421	.....	10.54	108 Vine st.	Louis Eckhardt.	Furnit're store and dwell'g.	1	2	Two-story and attic, brick.	Loss, $10.00. Recall 11.12 p. m.; fireworks.
Tuesd'y 4	319	.....	11.05	S. W. cor. Charles and Madison sts.	Stafford Hotel.	Hotel.	.....	.....	Twelve-story brick	Loss, $3.90. Recall 11.18 p. m.; fireworks.
Tuesd'y 4	163	.....	11.21	1814 E. Baltimore st.	Unoccupied.	Dwelling.	....	3	Three-story brick.	Loss, $5.00. Recall 11.34 p. m.; fireworks.
Tuesd'y 4	Si-l't	10 52	.....	647 N. Eutaw st.	Wm. Dunnett.	Plumbing st're	7	.....	Two-story and attic, brick.	Loss, $5.00; fireworks.

Tuesd'y	4	Si-l't	11.50	.....	1521 Holbrook st.	John Kilshenstine.	Dwelling.	.....	5	Two-story brick.	Loss, $25.50; fireworks.
Tuesd'y	4	Si-l't	.....	12.30	572 Colvin st.	John Johnson.	Dwelling.	6	.....	Two-story brick.	Loss, $15.00; fireworks.
Tuesd'y	4	Si-l't	.....	12.07	103 E. Cross st.	Charles Jones.	Dwelling.	.....	6	Two-story brick.	Loss. none; fireworks.
Tuesd'y	4	Si-l't	.....	10.12	124 W. Conway st.	J. H. Lawlor.	Dwelling.	2	.....	Three-story brick.	Loss, $7.50; fireworks.
Wedn'y	5	346	11.40	.....	717 Park ave.	Wm. H. Baldwin.	Dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 11.54 a. m.; lightning.
Wedn'y	5	Si-l't	11.31	.....	837 E. Lombard st.	Israel Meckelson	Dwelling.	3	.....	Two-story brick.	Loss, $5.94; heat from coal-oil stove.
Wedn'y	5	Si-l't	.....	12.10	1413 Federal st.	Charles Cordroy.	Dwelling.	.....	5	Two-story brick.	Loss, $6.00; children playing with matches.
Thurs'y	6	638	5.03	.....	B. and O. R. R. Freight, Locust Point.	W. Va. and Pittsburg R. R. Co.	Box car.	17	6	.....	Loss, none. Recall 5.51 a. m.; unknown.
Thurs'y	6	148	8.24	.....	405 S. Central ave.	August Hundt.	Dwelling.	.....	3	Two-story brick.	Loss, $62.50. Recall 8.50 a. m.; carelessness with matches.
Thurs'y	6	191	11.57	.....	11.05 S. Patuxent st.	Wm. H. Simmons.	Dwelling.	.....	3	Three-story brick.	Loss, $61.00. Recall 12.20 p. m.; overheated stove.
Thurs'y	6	187	.....	1.20	601 and 603 Luzerne st.	Napoleon B. Woolford.	Oakum fact'ry	.....	.....	Two-story brick.	Loss, none. Recall 1.31 p. m.; sparks from picker.
Friday	7	274	12.43	.....	2044 E. Biddle st.	George W. Sherman.	Garbage box, fence, dwelling.	.....	.....	Three-story brick.	Loss, none; recall 12.55 a. m.; unknown.

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Friday 7	65	10.09	.....	2111 Hanover st.	James M. Barrett.	Kitchen.	.....	.....	One-story frame.	Loss, none. Recall 10.24 a. m.; explosion of gasoline stove.
Satur'y 8	377	10.02	.....	1811 Maryland ave.	Thomas J. Smith	Dwelling.	.....	11	Three-story brick.	Loss, $53.00. Recall 10.11 a. m.; unknown.
Satur'y 8	262	.....	3.44	1813 E. Chase st.	Mary A. Hesse.	Dwelling.	.....	.....	Three-story brick.	Loss $34.00. Recall 3.54 p. m.; explosion of gasoline stove.
Satur'y 8	Sil't	11.55	.....	901 Ramsay st.	John Henry.	Grocery store & dwelling.	.....	.....	Three-story brick.	Loss none. Leaking gasoline stove.
Sunday 9	Sil't	10.34	.....	902 E. Lombard st	Henry Goulson.	Dry goods store and tenement.	3	.....	Three-story brick.	Loss $133.00. Explosion of gasoline stove.
Sunday 9	Sil't	.....	12.31	1710 E. Madison st	Mary Rieft.	Dwelling.	9	.....	Three story brick.	Loss none. Leaking gasoline stove.
Mond'y 10	165	6.45	.....	1618 E. Baltimore street.	Jacob Fisel.	Dwelling.	5, 9	3	Two story-and-attic brick.	Loss $211.71. Recall 7.21 a. m.; explosion of a coal-oil stove.
Mond'y 10	164	.....	2.40	1937 Bank street.	Peter Gaughran.	Dwelling.	.....	.....	Two-story-and-attic brick.	Loss none. Recall 2.51 p. m.; sparks from smoking pipe.

Mond'y	10	Si-l't	9.18	.....	1643 E. Madison st	Isaac Dowd.	Dwelling.	9	.....	Three-story brick.	Loss $48.00. Leaking gasoline stove.
Mond'y	10	45	.....	5.37	822 W. Baltimore street.	Mrs. Elizabeth Hartzell.	Dwelling and saloon.	.....	2	Three-story brick.	Loss $110.00. Recall 6.10 p. m.; leaking gasoline stove.
Mond'y	10	.....	.....	.....	824 W. Baltimore st	Fred. A. Forlzam.	Store & dwelling.	.....	.....	Three-story brick.	.....
Mond'y	10	372	.....	11.01	1301 N. Gilmor st.	J. Fletcher Lee.	Stable.	13, Chem, 2	10	Two story.	Loss, $113.00. Recall 12.11 a. m.; spontaneous combustion.
Tues'y	11	363	.....	5.12	809 W. Franklin st	John D. Green.	Dwelling.	8	4	Three-story brick.	Loss, none. Recall 5.34 p. m.; burning chimney.
Tues'y	11	461	.....	9.52	433 S. Mount st.	Alex. Stevens.	Dwelling.	.....	.....	Two-story brick.	Loss, $5.00. Recall 10.07 p. m.; explosion of gasoline stove.
Tues'y	11	47	.....	11.08	1732 W. Lexington street.	Jacob Gechner.	Dwelling.	14	10	Three-story brick.	Loss, $29.00. Recall 11.33 p. m.; unknown.
Wedn'y	12	438	2.21	.....	841½ W. Lombard street.	John T. Koch.	.....	10, 15	2	Three-story brick.	Loss, $402.00. Recall 3.23 a. m.; unknown.
Wedn'y	12	514	.....	1.21	124 S. Eutaw st.	Mrs. Bridget Hamilton.	Laundry and dwelling.	1, 2, 10, 15	2	Three-story brick.	Loss, $779.68. Recall 2.45 p. m.; explosion of gasoline stove.
Wedn'y	12	354	.....	3.03	218 Dolphin st.	John Reese.	Dwelling.	.....	11	Three-story brick.	Loss, $15.00. Recall 3.11 p. m.; burning chimney.

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Thurs'y 13	461	11.41	.....	302 S. Gilmor st.	Patrick Hogan.	Dwelling.	.....	.....	Three-story brick.	Loss, $5.00. Recall 11.55 a. m.; careless handling of matches.
Thurs'y 13	431	11.55	.....	216 Dawson alley.	Alice Owens.	Dwelling.	15	.....	Three-story brick.	Loss, $20.00. Recall 12.08 p. m., defective flue.
Thurs'y 13	Si-l't	.....	2.15	Corner Riggs ave. and Carey st.	Eugene Cook.	Store & dwelling.	.....	.....	Three-story brick.	Loss, none; burning chimney.
Thurs'y 13	Spc'l.	.....	2.00	1123 S. Charles st.	Mary Bennett.	Rubbish in yard.	.....	.....	Three-story brick.	Loss, none; boys playing with matches.
Friday 14	14	.....	4.13	914-916 E. Lombard st.	Evans & Spence	Stable.	3, 4, 5, 6	1, 3	Three-story brick.	Loss, $751.56. Recall 5.44 p. m.; spontaneous combustion.
Friday 14	389	.....	8.49	3½-Mile House, Reisterstown rd.	August Schroelitzki.	Yard.	.....	.....	.....	Loss none. Recall 9.06 p. m.; oil ignited by lighted match.
Friday 14	Si-l't	9.56	.....	225 W. Conway st.	Mrs. Eva Miles.	Dwelling.	2	.....	Two-story brick.	Loss, $50; unknown.
Satur'y 15	365	4.15	.....	1104 Pennsylvania avenue.	Chas.H. Daniels	Eating house and dwelling.	.....	4	Two-story brick and frame.	Loss, $52.50. Recall 4.39 a. m.; unknown.
Satur'y 15	264	.....	8.54	.....	.....	.....	.....	.....	.....	Loss, none. Recall 9.06; false alarm.

Satur'y 15	527	.....	9.08	229 S. Howard st.	S. M. Sibley.	Produce and poultry dealer.	1, 2, 15,	2	Three-story brick.	Loss, $287.26. Recall 9.59 p. m.; unknown.
Satur'y 15	Spc'l	.....	11.30	324 Light st.	Max Miller.	Clothi'g house	.....	.....	Five-story brick.	Loss, none. Unknown.
Sunday 16	337	12.02	.....	1136 Etting street.	Benj. Welsh.	Dwelling.	.....	4	Three-story brick.	Loss, $58.00. Recall 12.27 a. m.; unknown.
Sunday 16	143	1.07	.....	1151 Granby st.	Louis Goldman.	Tenement.	.....	.....	Three-story brick.	Loss, none. Recall 1.21 a. m.; reflection from gasoline stove.
Sunday 16	254	7.43	.....	303 North avenue.	Mrs. Brooke Pleasant.	Dwelling.	.....	5	Four-story brick.	Loss, $5.90. Recall 8.08 a. m.; burning chimney.
Sunday 16	312	.....	4.27	204 Clay street.	Geo. Esselman.	Manufacturer of picture frames.	.....	2	Three-story brick.	Loss, none. Recall 4.35 p. m.; spontaneous combustion.
Sunday 16	415	.....	9.21	17 N. Eutaw st.	Cronin & McDonald.	Saloon and dwelling.	.....	2	Three-story brick.	Loss, $50.00. Recall 9.32 p. m.; electric wire.
Monday 17	Si-l't	11.30	.....	1011 Granby st.	May Sittig.	Dwelling.	3	.....	Three-story brick.	Loss, $25.00. Explosion of gasoline stove.
Mond'y 17	547	.....	8.07	Foot of Howard street.	Rentch Gas Co.	Building.	2	6	Three-story brick.	Loss, $28.75. Recall 8.29 p. m.; sparks from furnace.
Mond'y 17	Si-l't	9.40	.....	10 Merryman's lane.	James Hamilton	Kitchen.	4 Chem.	.....	One-story frame.	Loss, none. Explosion of gasoline stove.
Mond'y 17	Si-l't	.....	11.20	1130 Mosher st.	T. Geo. Breyer.	Dwelling.	.....	.....	Three-story brick.	Loss, none. Burning chimney.

DATE.	BOX.	A.M.	P.M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERVICE	BUILDING.	REMARKS.
Tues'y 18	425	.....	12 37	914 W. Baltimore street.	M. Hartz.	Confectionery store and dwelling.	.....	.....	Three-story brick.	Loss, $138.75. Recall 12.54 p. m.; explosion of gasoline stove.
Tues'y 18	514	.....	1.37	N. W. Cor. Eutaw and Pratt sts.	Herman A. Dubner.	Hotel.	15	2	Four-story brick.	Loss, $74.87. Recall 2.09 p. m.; overheated stove.
Tues'y 18	238	.....	6.55	1622 Barnes st.	John Young.	Kitchen.	.....	.....	One story frame.	Loss, $45.30. Recall 7.09 p. m.; explosion of coal-oil stove.
Wedn'y 19	31	3.31	.....	306 Hargrove alley	Bernard Masterson.	Dwelling.	4, 6	1	Three-story brick.	Loss, $220.00. Recall 4.35 a. m.; explosion of coal-oil lamp.
Wedn'y 19	394	9.37	.....	607 Thirty-fifth st.	Henry Harkins.	Dwelling.	.....	.....	Two-story brick.	Loss, $10.00. Recall 9.54 a. am.; explosion of gasoline stove.
Wedn'y 19	Si-l't	.....	5.30	Lombard street.	Cityof Baltimore	Bridge.	3	.....	.....	Electric wire.
Wedn'y 19	61	.....	9.05	716 Light street.	James Wiban.	Saloon and dwelling.	.....	.....	Three-story brick.	Loss, $30.00. Recall 9.15 p. m.; explosion of coal-oil lamp.

Wedn'y 19	7		11.47							Loss, none. Recall 11.52 p. m.; false alarm.
Wedn'y 19	Si-l't	11.00		1817 Frederick ave	Theodore Pressler.	Stable.	14		One-story frame.	Loss, none. Boys playing with matches.
Thurs'y 20	Si-l't		9.03	116 Albemarle st.	Simon Jacobson.	Tenement.	3		Three-story brick.	Loss, none. Unknown.
Friday 21	442		8.11	630 W. Fayette st.	Mrs. Emma Pollock.	Dwelling.	1		Two-and-a-half-story brick.	Loss, $10.00. Recall 8.20 p. m.; lighted candle igniting curtain.
Satur'y 22	Si-l't	9.07		1643 E. Madison st	Isaac Doud.	Dwelling.	9		Three-story brick.	Loss, $15.00. Explosion of coal-oil stove.
Satur'y 22	Sp c'l.	9.30		1114 Patterson ave	G. R. Faustman.	Hardw'e store			Three story brick.	Loss, $10.00. Upsetting lantern.
Satur'y 22	Si-l't	8.47		Foot of Cross st.	Unoccupied.	Wharf.	12			Loss, none. Setting fire to a lot of rubbish.
Satur'y 22	241	7.57		814 Hillen street	Wm. H. Walker	Dwelling.			Two-story and attic brick.	Loss, $13.58. Recall 8.03 p. m.; dropping coal-oil lamp.
Satur'y 22	431		9.25	737 W. Pratt st. extended.	Dennis Bergin.	Dwelling.	15	2	Two-story brick.	Loss, $171.50. Recall 10.00 p. m.; unknown.
Satur'y 22				735 W. Pratt st. extended.	Mrs. Catherine Seibaik.	Plumb'g shop and dwell'g.			Three-story brick.	
Satur'y 25	Si-l't	11.54		216 Harrison st.	Nicholas Williams.	Second-hand cloth'g store		1	Three-story brick.	Loss, none; leaking gasoline stove.
Sunday 23	562	12.16		1732 Hanover st.	Thomas Loudenslager.	Fence.				Loss, none. Recall 12.28 a. m.; set fire by gasoline stove.

RECORD OF FIRES AND ALARMS FOR THE YEAR ENDING DECEMBER 31, 1899.

DATE.	BOX.	A.M.	P.M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Sunday 23	Sl't	11.25	.....	504 Druid Hill ave	John N. Johnson	Eating saloon and dwell'g.	7	.....	Two-story and attic brick.	Loss, $20.00; burning grease on gasoline stove.
Sunday 23	Sl't	.....	9.40	521 Reese alley.	Ella Dorsey.	Dwelling.	2	.....	Three-story brick.	Loss, $25.00; unknown.
Mond'y 24	Sl't	9.50	.....	Cor. St. Paul and Lexington st.	Jas. McC. Trippe	Law Building.	.....	.....	Seven-story brick.	Loss, $39.15; awning ignited by lighted match.
Tues'y 25	531	5.06	.....	746 Columbia ave.	Frederick Dill.	Undertaking establishm't.	10, 15	2	Three-story brick.	Loss, $175.75. Recall 5.38 a. m.; unknown.
Tues'y 25	471	9.28	.....	314 N. Fulton ave.	Wm. H. Shipley	Dwelling.	.....	10	Three-story brick.	Loss, $50.00. Recall 9.40 a. m.; children playing with matches.
Tues'y 25	467	.....	4.55	1298 Frederick ave	Albert Moore.	Grocery store and dwelling	.....	8	Two-story frame.	Loss, $90.00. Recall 5.21 p. m.; explosion of gasoline stove.
Tues'y 25	541	.....	6.44	839 China street.	Fred'k Whiting.	Dwelling.	2	6	Two-story and attic brick.	Loss, $73.50. Recall 6.55 p. m.; explosion of coal-oil lamp.
Wedn'y 26	348	9.34	.....	309 E. Lanvale st.	EmanuelHauser	Dwelling.	.....	11	Three-story brick.	Loss, $85.20. Recall 9.45 a. m.; clothing ignited by gasoline.

Wedn'y 26	151	.....	2.13	1610 E. Lombard street.	Joseph Feldman	Dwelling.	.....	3	Two-and-a-half-story brick.	Loss, $56.00. Recall 2.27 p. m.; explosion of gasoline stove.
Thurs'y 27	Sp c'l	.....	12.30	2526 Fait avenue.	Mrs. Geo. Winkleman.	Dwelling.	.....	.....	Two-story brick.	Loss, none; explosion of gasoline stove.
Thurs'y 27	Si-l't	.....	6.35	1013 E. Hoffman street.	Mary Friedel.	Dwelling.	.....	5	Two-story brick.	Loss, $10.00; explosion of gasoline stove.
Thurs'y 27	39	.....	10.50	729 Cumberland st	E. F. Diven.	Kitchen.	2 Chem.	10	One-story frame.	Loss, $26.75. Recall 11.22 p. m.; mice gnawing matches.
Friday 28	217	8.26	.....	536 Colvin st.	Joseph Robinson	Dwelling.	.....	.....	Two-story and attic brick	Loss, none. Recall 8.31 a. m.; sparks from stove-pipe.
Friday 28	721	.....	12.13	18 Woodberry ave.	George R. Alban	Store and dwelling.	.....	9	Two-story and attic brick.	Loss, $53.80. Recall 12.25 p. m.; explosion of gasoline stove.
Satur'y 29	Si-l't	.....	9.05	2009 Oak st.	Joseph Burrier.	Dwelling.	.....	.....	Three-story brick.	Loss, $45.00; explosion of coal-oil lamp.
Sunday 30	313	1.44*	.....	S. W. Cor. Charles and Centre sts.	Jacob Rohr.	Hotel St. James.	1, 2, 4, 6, 7, 8, 10, 13, 15	1, 2, 4, 5	Five-story brick.	Loss, $30.507.46. Recall 11.01 a. m.; unknown.
Sunday 30	*	1.47	.....	.....	.....	.....	W. T., 1, 2	.....	.....	.....
Sunday 30	262	.....	5.30	1105 N. Dallas st.	Jacob Beck.	Stable.	.....	.....	One-story frame.	Loss, none. Recall 5.39 p. m.; unknown.
Sunday 30	318	.....	8.07	17 W. Lexington st.	Wm. Ashman.	Photograph Establishment.	4	2	Four-story iron.	Loss, $82.50. Recall 8.34 p. m.; electric wire.

*General alarm.

DATE.	BOX.	A. M.	P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Sunday 30	413	.....	9.02	110 W. Baltimore st.	Kuff & Lierton.	Clothing Manufacturers.	4, 15	1, 2	Four-story brick.	Loss, $1,860. Recall 10.07 p. m.; unknown.
Mond'y 31	173	8.12	.....	2434 Fait ave.	Henry Smith.	Bakery and dwelling.	.....	.....	Four-story brick.	Loss, $8.00. Recall 8.24 p. m.; leaking gasoline stove.
Mond'y 31	Si-l't	.....	9.28	934 Woodyear st.	Sarah Morris.	Dwelling.	....	10	Two-story brick.	Loss, $25.00; unknown.
August.										
Tuesd'y 1	457	10.47	.....	1127 Stockton st.	Mary Carter.	Dwelling.	.....	.....	Two-story brick.	Loss, $36.50. Recall 11.03 a. m.; unknown.
Tuesd'y 1	157	.....	6.45	816 S. Bond st.	Valentia Wastysak.	Saloon and dwelling	.....	.....	Two-and-a-half-story brick.	Loss, none. Recall 6.53 p. m.; explosion of gasoline stove.
Tuesd'y 1	485	.....	8.45	34 Stafford st.	Saml. Glenn.	Dwelling.	.....	.....	Two-story frame.	Loss, $13.00. Recall 9.00 p. m.; explosion of coal-oil lamp.
Wedn'y 2	242	.....	7.31	904 Greenmount ave.	Thomas Mulledy	Grocery store and dwelling.	.....	.....	Two-story and attic brick.	Loss, none. Recall 7.40 p. m.; dropping a lighted match.

Thurs'y	3	155	.....	1.01	223 S. Caroline st.	Mary Hutson.	Dwelling.	.....	3	Two-and-a-half-story brick.	Loss, none. Recall 1.20 p. m.; explosion of gasoline stove.
Thurs'y	3	43	.....	3.18	N. W. Cor. Penn and Dover st.	Lewis Booth.	Eating Saloon	10	2	One-story frame.	Loss, $44.60. Recall 3.36 p. m.; unknown.
Thurs'y	3	229	.....	8.02	2029 E. Fayette st.	Philip L. Hoffle-bet.	Confectionery store and dwelling.	.....	.....	Two-story brick.	Loss, $1.50. Recall 8.15 p. m.; toys ignited by lighted gas jet.
Thurs'y	3	Si-l't	.....	9.10	111 N. Paca st.	Thos. P. Bolgiano	Locksmith shop and dwelling.	1	.....	Three-story brick.	Loss, none. Unknown.
Thurs'y	3	Si-l't	9.10	.....	23 N. Gilmor st.	Mrs. Gibson.	Dwelling.	14	.....	Three-story brick.	Loss, none. Overcharged coal-oil stove.
Thurs'y	3	Si-l't	.....	4.55	842 Columbia ave.	Jacob Oster.	Dwelling.	10	.....	Three-story brick.	Loss, none. Careless use of gasoline.
Friday	4	247	3.23	.....	1106 E. Monument street.	Wm. Deppish.	Fence.	.....	.....	.....	Loss, none. Recall 3.32 a. m.; unknown.
Friday	4	468	10.09	.....	10 Kossuth st.	John Seigfried.	Dwelling.	.....	.....	Two-story frame.	Loss, $50.00. Recall 10.21 a. m.. explosion of gasoline stove.
Friday	4	156	.....	9.43	1618 Thames st	Julian Sosnou-ski	Tenement.	.....	.....	Three-story brick.	Loss, $28.75. Recall 9.51 p. m.; unknown.
Friday	4	Spc'l	.....	12.30	402 N. Paca st.	Charles Kotch.	Dwelling.	.....	.....	Two-and-a-half-story brick.	Loss, none. Leaking gasoline stove.

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Satur'y 5	131	.....	5.51	232 Buchannan's wharf.	Baugh Sons & Co.	Storage building.	3	1	One-story frame.	Loss, none. Recall 6.18 a. m.; spontaneous combustion.
Satur'y 5	143	9.51	.....	207 S. Central ave.	Belsey Wolfe.	Grocery store and dwelling.	.....	.....	Two-story-and-attic brick.	Loss, none. Recall 9.57 a.m.; carelessness with matches
Satur'y 5	454	.....	12.19	1113 Rice street.	Charles R. Iglehart.	Stable.	8, 13	10	Two-story brick.	Loss, $100.00. Recall 1.05 p. m.; explosion of coal-oil stove.
Satur'y 5	259	.....	6.20	1116 Ensor street.	Thomas Larkins	Shed.	.....	5	One-story frame.	Loss, $116.95. Recall 6.45 p. m.; explosion of coal-oil stove.
Satur'y 5	238	.....	11.00	900 N. Gay street.	Harry Whiteside	Dwelling and bakery.	.....	.....	Three-story brick.	Loss, none. Recall 11.07 p. m.; electric wire.
Satur'y 5	247	.....	11.58	572 N. Gay street.	Elizab. Keagle.	Produce store and dwelling	6	5	Three-story brick.	Loss, $45.00. Recall 12.20 a. m.; electric wire.
Satur'y 5	Si-l't	.....	3.18	200 E. Baltimore st	Pennsylvania R. R. Co.	Office building	.....	.....	Two-story brick.	Loss, none. Smoke issuing from cellar
Satur'y 5	Si-l't.	.....	5.52	1141 Haubert st.	John Flam.	Dwelling.	17	.....	.....	Loss, $41.28. Unknown.

Satur'y	5	Si-l't.	.....	6.02	1116 Nanticoke st.	John Schoen.	Clothing in yard.	10	.....	.....	.....	Loss, none. Clothing ignited by gasoline stove.
Sunday	6	247	7.08	.....	572 N. Gay st.	Elizab'h Keagle	Produce store and dwelling.	6	5	Three-story brick.		Loss, none. Recall 7.31 a. m.; electric wire.
Sunday	6	Si-l't	3.30	.....	242 Buchanan's wharf.	Baugh Sons & Co.	Storage building.	4	.....	One-story frame.		Loss, none; spontaneous combustion.
Mond'y	7	623	.....	2.45	41 E. Henrietta st.	John Gaither.	Dwelling.	.....	6	Three-story brick.		Loss, none. Recall 3.06 p. m.; unknown.
Mond'y	7	14	.....	10.26	34 Albemarle st.	Michael S. Jacobs and others	Tenement.	3	1	Three-story brick.		Loss, $222.65. Recall 10.46 p. m.; upsetting coal-oil lamp.
Tues'y	8	28	7.47	.....	1735 Bradford st.	Carrie Carter.	Dwelling.	.....	.....	Two-story brick.		Loss, $5.00. Recall 7.58 p. m.; explosion of gasoline stove.
Tues'y	8	144	.....	4.26	305 President st.	Reliable Furniture Co.	Furniture factory.	3	1	Five-story brick.		Loss, none. Recall 4.38 p. m.; unknown.
Tues'y	8	Si-l't	.....	8.57	1641 E. Monument street.	Frank Slama.	Shoe shop and dwelling.	.....	.....	Three-story brick.		Loss, $15.00. unknown
Wedn'y	9	273	7.46	.....	2004 Keyser street.	Henry Kammer.	Dwelling.	.....	.....	Two-story brick.		Loss, $6.00. Recall 7.54 a. m.; explosion of gasoline stove.
Wedn'y	9	161	.....	6.24	509 S. Wolfe st.	Wm. Reinecke.	Dwelling.	.....	.....	Two-story and attic brick.		Loss, none. Recall 6.31 p. m.; leaking gasoline stove.

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Wedn'y 9	354	.....	9.10	216 W. Lanvale st.	John Sifford.	Dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 9.24 p. m.; mosquito net ignited by lighted gas jet.
Thurs'y 10	387	10.13	.....	2806 Pennsylvania avenue.	Adam Benner.	Stable.	13, 2 Chem.	10	One-story frame.	Loss, none. Recall 10.54 a. m.; unknown.
Thurs'y 10	35	.....	11.45	260 W. Hoffman st.	Dr. Henry Gale.	Dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 12.00 p. m.; mosquito net ignited by lighted candle.
Friday 11	128	.....	8.35	48 Market space.	Simon Marks.	Dwelling.	.....	.....	Two-story and a-half brick.	Loss, none. Recall 8.41 p. m.; explosion of coal-oil stove.
Friday 11	Si-l't	.....	10.35	Howard st., near Little Rose st.	City of Balto.	Baltimore City College.	7	.....	Five-story brick.	Loss, none. Unknown.
Sunday 13	735	10.17	.....	1639 N. Broadway.	Dr. William T. Riley.	Dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 10.28 a. m; explosion of gasoline stove.
Sunday 13	535	.....	12.54	1338 Columbia ave	Theodore Bowman.	Dwelling.	.....	.....	Two-story brick.	Loss, $10.00. Recall 1.12 p. m.; overflow of a gasoline stove.

Sunday 13	Si-l't	12.10	.....	2430 Canton ave.	Charles Rice.	Dwelling.	11	.....	Two-story brick.	Loss, none; explosion of coal-oil lamp.
Sunday 13	Si-l't	.....	9.30	127 N. Paca st.	Frederick Fiser.	Dwelling.	1	.....	Three-story brick.	Loss, none; leaking gasoline stove.
Sunday 13	Si-l't	2.25	.....	1444 Richardson st	Kazermer Waruk.	Dwelling.	17	.....	Two-story brick.	Loss, $25.00; unknown.
Mond'y 14	43	11.33	.....	713 Dover st.	Louis C. Vogt.	Dwelling.	15	2	Two-story brick.	Loss, $24.00. Recall 11.49 a. m.; unknown.
Mond'y 14	624	.....	7.08	West st. and Peach alley.	Snowden Cowman.	Iron foundry.	.....	.....	Three-story brick.	Loss. none. Recall 7.20 p. m.; smoke from furnace.
Tues'y 15	Si-l't	.....	6.09	1121 E. Lombard st.	Mollie Wolfe.	Tenement.	3	.....	Three-story brick.	Loss, none; explosion of a gasoline stove.
Tues'y 15	Si-l't	.....	3.18	15 Postoffice ave.	C. S. French.	Office Building.	4	.....	Four-story brick.	Loss, $15.00; unknown.
Wedn'y 16	Si-l't	6.58	.....	515 Ensor st.	Vincent Lyons.	Store and dwelling.	.....	.....	Three-story brick.	Loss, none; careless with coal oil.
Wedn'y 16	355	.....	9.01	868 Park ave.	Mrs. Paynton.	Hotel Brexton.	.....	4	Four-story brick.	Loss, none. Recall 9.14 p. m.; unknown.
Thurs'y 17	317	11.14	.....	612 N. Calvert st.	Ellen Belts.	Dwelling.	4, 7	4	Three-story and attic brick.	Loss, $35.00. Recall 11.28 a. m.; sparks from chimney.
Thurs'y 17	254	.....	12.38	408 E. Twentieth st.	Chas. E. Gladden.	Dwelling.	.....	5	Three-story brick.	Loss, $48.10. Recall 1.03 p. m.; tinner's firepot.
Thurs'y 17	456	.....	7.24	1060 Vine st.	James Tomilson (col.)	Dwelling.	8	10	Two-story brick.	Loss, $2.00. Recall 7.37 p. m; explosion of a gasoline stove.

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Thurs'y 17	274	.....	8.01	2136 Murra st.	Unoccupied.	Dwelling.	.....	.....	Two-story brick.	Loss, none. Recall 8.15 p. m.; burning broom thrown on roof.
Thurs'y 17	741	.....	9.19	715 Gorsuch ave.	W. C. Mousing.	Dwelling.	.....	.....	Two-and-a-half-story frame.	Loss, $6.00. Recall 9.28 p. m.; unknown.
Friday 18	54	12.31	.....	107 W. York st.	Walter Robertson.	Dwelling.	2	6	Three-story brick.	Loss, $45.00. Recall 12.59 a. m.; unknown.
Satur'y 19	264	10.40	.....	528 N. Caroline st.	Martha Welford	Dwelling.	9	5	Three-story brick.	Loss, $86.40. Recall 10.54 a. m.; explosion of coal-oil stove.
Satur'y 19	422	.....	4.17	226 W. Fayette st.	Louis Di Stephane.	Saloon and dwelling.	.....	2	Two-story and attic brick.	Loss, $100.00. Recall 4.26 p. m.; leaking gasoline stove.
Satur'y 19	171	.....	6.05	512 S. Duncan alley	John Mitchell.	Dwelling.	11	.....	Two-story and attic brick.	Loss, $10.00. Recall 6.20 p. m.; filling gasoline stove while burning.
Sunday 20	68	2.25	.....	Marshall and Winder sts.	Matthai & Ingram.	Furnace room.	12, 17	6	One-story brick.	Loss, none. Recall 3.14 a. m.; overflow of pan of oil.

Sunday 20	419	11.45	.....	210 N. Eutaw st.	Lucy D. Sleet.	Dressmaking establishment.	7, 15	2	Four-story brick.	Loss, $255.00. Recall 12.09 p. m.; unknown.
Sunday 20	Si-l't	.....	12.03	420 Rogers ave.	Samuel Semples	Dwelling.	.....	.....	Two-and-a-half story brick.	Loss, $10.00. Explosion of bottle of gasoline.
Sunday 20	731	.....	7.40	1900 Washington street.	Henry Leidlick.	Bakery, dwelling and stable.	9, 19 6 Chem.	5	Two-and-a-half story brick.	Loss, $75.00. Recall 8.14 p. m.; unknown.
Sunday 20	Si-l't	.....	11.40	643 N. Eutaw st.	Barney Bloomberg.	Store and dwelling.	7	.....	Three-story brick.	Loss, $10.00. Upsetting of coal-oil lamp.
Mond'y 21	632	6.21	.....	1603 Covington st.	Philip Myers.	Dwelling.	12	6	Two-story brick.	Loss, $121.10. Recall 6.49 a. m.; explosion of gasoline stove.
Mond'y 21	623	7.56	.....	829 Hanover st.	Henry Feldman.	Dwelling.	12	6	Three-story brick.	Loss, $87.85. Recall 8.19 a. m.; explosion of gasoline stove.
Mond'y 21	226	.....	8.30	334 Forrest st.	Joshua Woods.	Dwelling.	6	1	Three-story brick.	Loss, $33.31. Recall 8.49 p. m.; lightning.
Mond'y 21	Sp c'l	4.50	.....	946 Eastern ave.	Fred. Jungblut.	Shed.	.....	.....	One-story frame.	Loss, $12.00. Explosion of gasoline stove.
Tues'y 22	469	.....	3.10	East of Dorsey, south of Lohr's lane.	Unoccupied.	Dwellings.	14 1 Chem.	8	Two-story frame.	Loss, $500.00. Recall 5.38 p. m.; unknown.
Tues'y 22	145	.....	5.40	113 S. Central ave.	Johannah Tholberg.	Store and dwelling.	3	3	Three-story brick.	Loss, $200.00. Recall 5.55 p. m.; gasoline ignited from lighted match.

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Wedn'y 23	379	2.18	.....	1533 Guilford ave.	Wm. Gisriel & Sons.	Brass Foundry	6	5	One-story frame.	Loss, $15.00. Recall 2.48 a. m; unknown.
Wedn'y 23	68	3.18	.....	Marshall and Winder sts.	Matthai & Ingram.	Tin factory.	.....	.....	Four-story brick.	Loss, none. Recall 3.40 a. m.; unknown.
Wedn'y 23	174	.....	5.03	2008 E. Pratt st.	Daniel Caulk.	Dwelling.	.....	3	Three-story brick.	Loss, $95.00. Recall 5.37 p. m.; filling gasoline stove while burning.
Wedn'y 23	25	.....	5.37	.....	.....	.....	.....	.....	.....	Loss, none. Recall 5.52 p. m.; false alarm.
Thurs'y 24	285	1.39	.....	332 Harford Road.	Antone Stresenski.	Blacksmith shop and dwelling.	19 4, 5, 6 Chem.	7	One-story frame.	Loss, $483.00. Recall 2.51 a. m.; unknown.
Thurs'y 24	215	.....	6.58	1208 E. Fayette st.	Samuel Schaloweszki.	Dwelling and kitchen.	.....	.....	One-story brick.	Loss, $40.00. Recall 7.06 p. m.; explosion of gasoline stove.
Thurs'y 24	Sil't	.....	1.03	1643 E. Madison st	Baag Doud.	Kitchen.	9	.....	One-story frame.	Loss, $35.40; overflow of oil stove.
Thurs'y 24	165	.....	8.12	1636 E. Lombard street.	August Steurgent.	Dwelling.	.....	3	Two-story and attic brick.	Loss, $10.00. Recall 8.29 p. m.; sparks from matches.

Thurs'y	24	332	.....	9.35	708 Little Monument st.	Louise Thomas, (col.)	Dwelling.	.....	.....	Two-story and attic brick.	Loss, none. Recall 9.46 p. m.; smoke from chimney.
Thurs'y	24	Si-l't	.....	6.01	433 S. Bond st.	Fredk. Koerner.	Dental room and dwelling	.....	3	Two-story and attic brick.	Loss, $43.50; heat from tinner's fire pot.
Friday	25	246	2.21	.....	Cor. Ashland ave. and Stirling st.	Harper & Radford Co.	Rag Warehouse.	4, 6, 9	5	Four-story brick.	Loss, $729.96. Recall 4.41 a. m.; spontaneous combustion.
Friday	25	23	5.24	.....	Lexington and Caroline sts.	Frank & Sons.	Junk shop.	6	3	Two-story brick.	Loss, $15.00. Recall 5.46 a. m.; spontaneous combustion.
Friday	25	723	.....	4.58	216 Delwood ave.	Henry Heil.	Dwelling.	.....	9	Two-story frame.	Loss, $61.00. Recall 5.30 p. m.; explosion of gasoline stove.
Friday	25	56	.....	5.06	203 W. Hamburg street.	John Holber.	Shed.	.....	6	One-story frame.	Loss, $38.50. Recall 5.19 p m.; explosion of coal-oil lamp.
Friday	25	Spc'l	.....	10.00	1230 Wall st.	Gebhard Coleman.	Dwelling.	.....	.....	Two-story brick.	Loss, $15.00; explosion of coal-oil lamp.
Satur'y	26	396	.....	9.31	62 Druid Hill ave.	John H. Harvey.	Grocery store and dwelling.	.....	.....	Two-story frame.	Loss, none. Recall 9.48 p. m.; explosion of coal-oil lamp.
Satur'y	26	Si-l't	7.30	.....	1511 Lafayette av.	Nelson Johnson.	Shed.	.....	10	One-story frame.	Loss, none; explosion of benzine.
Satur'y	26	Si-l't	.....	9.11	521 N. Carrollton avenue.	C. W. Bowie.	Dwelling.	8	.....	Three-story brick.	Loss, $61.00; lighted gas jet igniting curtain.

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DATE.	BOX.	A.M.	P.M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Satur'y 26	357	.....	10.15	West side of Brevard st., north of Preston st.	Boys' Latin School.	Yard.	.....	4	.....	Loss, none. Recall 10.28 p. m.; rain slaking lime.
Satur'y 26	Si-l't	.....	9.35	616 E. Baltimore street.	Great Atlantic & Pacific Tea Co.	Tea store.	.....	1	Three-story brick.	Loss, none; electric wire.
Sunday 27	424	12.19	.....	781 W. Lexington street.	John G. Hoffman.	Provis'n store and dwelling.	8	2	Four-story brick.	Loss, $35.00 Recall 12.39 a. m.; unknown.
Sunday 27	624	7.57	.....	171 W. Cross st.	Louis Kline.	Shed.	.....	6	One-story frame.	Loss none. Recall 8.06 a. m.; explosion of gasoline stove.
Mond'y 28	26	.....	2.29	1311 E. Madison st	Edward Bafford	Dwelling.	9	.....	Three-story brick.	Loss $34.50. Recall 2.39 p. m.; lighted match igniting gasoline.
Mond'y 28	Si-l't	.....	6.30	27 Lloyd street.	Aaron Shukan	Dwelling.	3	.....	Three-story brick.	Loss, $15.00. Children playing with matches.
Tues'y 29	442	1.32	.....	636 W. Lexington street.	John E. Wicks.	Coal & Wood Yard.	1	.....	....	Loss, none. Recall 1.47 a. m.; unknown.
Tues'y 29	226	.....	1.47	1118 Low street.	Nathan Skectro-wetze.	Store and dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 1.56 p. m.; exploting of coal-oil stove.

Tues'y 29	182	.....	9.36	2337, 2339 Boston street.	W. H. Killiam & Co.	Oyster & Fruit packing-house.	5, 9, 11	3	Two-story brick.	Loss, $2,272.90. Recall 11.15 p. m.; suppose spontaneous combustion.
Tues'y 29	Spc'l	.....	2.45	2450 E. Fayette st.	John Farmer.	Dwelling.	.....	.....	Two-story brick.	Loss, $35.59. Unknown.
Wedn'y 30	214	3.01	.....	1015-1019 E. Fayette street.	August Schultze & Co.	Gas fixture & solder factory.	3, 6	1	Three-story brick.	Loss $559.25. Recall 4.10 a. m.; overheated furnace.
Wedn'y 30	Spc'l.	3.30	.....	801 Haw street.	Joseph Zalinski.	Saloon and dwelling.	.....	.....	Two story brick.	Loss, $10.00. Leaking gasoline stove.
Wedn'y 30	187	.....	3.34	618 S. Luzerne st.	Benj. Greebel.	Dwelling.	11	3	Two-story brick.	Loss, $15.00. Recall 3.44 p. m.; explosion of gasoline stove.
Wedn'y 30	Sil't	.....	5.00	127 N. Paca street.	Fred'k Fisher.	Store & dwelling.	.....	.....	Three-story brick.	Loss, none. Unknown.
Wedn'y 30	51	.....	7.54	105 Ellicott street.	E. M. Vickery.	Smoke-house.	.....	.....	Three-story brick.	Loss, none. Recall 8 19 p. m.; smoke issuing from building.
Wedn'y 30	Sil't	10.45	.....	1341 Hull street.	Ellsworth Cloman.	Dwelling.	17	.....	Three-story brick.	Loss, $18.50. Overheated stove.
Thurs'y 31	348	.....	6.43	1719 Latrobe st.	Henry Becker.	Saloon and dwelling.	18	11	Two-story brick.	Loss, $177.00. Recall 6.53 p. m.; explosion of whiskey
September										
Friday 1	425	5.36	.....	14 N. Schroeder st	L. H. Robinson.	Storage-house	8, 10, 14	2	Two-story brick.	Loss, $1,206.57. Recall 7.34 a. m.; unknown.
Friday 1	217	.....	4.41	424 N. Exeter st.	AntonePessagne	Dwelling.	6	.....	Two-story-and-attic brick.	Loss, $65.00. Recall 4.48 p. m.; explosion of gasoline stove.

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Friday	1 393	.....	6.19	257 Cedar ave.	Robert Sibley.	Store and dwelling.	.....	.....	Two-story brick.	Loss, none. Recall 6.37 p. m.; explosion of a gasoline stove.
Friday	1 Si-l't	.....	7.16	1920 W. Baltimore street.	J. Otis Roloson.	Dwelling.	.....	.....	Three-story brick.	Loss, none. Sparks from telephone.
Satur'y	2 65	.....	2.50	1837 S. Charles st.	Albert Eckels.	Dwelling.	12	6	Two-story brick.	Loss, $230.10. Recall 3.27 p. m.; explosion of gasoline stove.
Satur'y	2 155	.....	7.31	1405 Gough st.	Ardel Dolskin.	Laundry and tenement.	.....	3	Three-story brick.	Loss, $25.00. Recall 7.50 p. m.; explosion of gasoline stove.
Sunday	3 6	.....	1.51	103 and 105 Elliott street.	E. M. Vickery.	Smokehouse.	2, 3, 4, 6, 15	1, 2, 3	Three-story brick.	Loss, $1,638.20. Recall 3.38 p. m.; unknown.
Sunday	3 2d alm	.....	1.56	.....	.....	.....	.....	.....	.....	.....
Monday	4 155	.....	3.03	1426 Gough st.	Lena Goldstein.	Tenement.	.....	.....	Two-story and attic brick.	Loss, none. Recall 3.11 p. m.; carelessness.
Monday	4 252	.....	9.19	1115 Greenmount ave.	Wm. B. Staples.	Dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 9.28 p. m.; explosion of coal-oil lamp.

Monday	4	Si-l't	.....	8.25	921 Whatcoat st.	Horace Lee.	Dwelling.	.....	10	Two-story brick.	Loss, none. Burning chimney.
Tuesd'y	5	465	.....	1.53	117 S. Payson st.	Unoccupied.	Dwelling.	14	.....	Two-story brick.	Loss, $14.00. Recall 2.10 p. m.; unknown.
Tuesd'y	5	157	.....	2.36	901 S. Caroline st.	Ernest Wise and others.	Tenement.	3, 5	3	Two-story brick.	Loss, $75.00. Recall 3.05 p. m.; sparks from smoke stack.
Tuesd'y	5	295	.....	5.51	2225 St. Paul st.	W. Hiram Taylor.	Dwelling.	18, 19	11	Three-story brick.	Loss, $1,660.37. Recall 7.52 p. m.; unknown.
Wedn'y	6	157	.....	6.55	704 S. Bond st.	Harris Levy.	Clothing store	.....	3	One-story brick.	Loss, $10.00. Recall 7.03 p. m.; explosion of a coal-oil stove.
Wedn'y	6	184	.....	7.05	2720 O'Donnell st.	Frederick Young	Dwelling.	.....	.....	Two-story brick.	Loss, none. Recall 7.24 p. m.; explosion of gasoline stove.
Wedn'y	6	235	.....	10.50	712 N. Castle st.	John Gebline.	Slaughter-house.	9	.....	Three-story brick.	Loss, none. Recall 11.01 p. m.; hot ashes.
Thurs'y	7	383	.....	12.53	550 Presstman st.	Silas Yingling.	Dwelling.	.....	.....	Three-story brick.	Loss, $65.00. Recall 1.06 p. m.; explosion of gasoline stove.
Thurs'y	7	Si-l't	.....	12.07	1630 E. Hoffman st	Edward Willis.	Yard.	.....	5	In rear three-story brick.	Loss, $25.00. Children playing with matches.
Thurs'y	7	25	.....	4.05	.....	.....	.....	.....	.....	.....	Loss, none; false alarm.
Thurs'y	7	Si-l't	.....	5.30	823 Granby st.	Mary Seldner.	Tenement.	.....	.....	Four-story brick.	Loss, none; house filled with smoke.

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Thurs'y	7 317	.....	7.40	521 Hargrove alley	P. T. George.	Pork packing establishment.	.....	.....	Three-story brick.	Loss, none. Recall 7.48 p. m; smoke from stack.
Thurs'y	7 Si-l't	.....	9.00	908 Madison ave.	A. Fehlert & Co.	Drug store and dwelling.	.....	4	Three-story brick.	Loss, none; badly constructed hearth
Friday	8 254	.....	7.31	North ave. near Greenmount ave	Unoccupied.	Yard.	.....	.....	....	Loss, none. Recall 7.38 p. m.; burning of rubbish.
Friday	8 282	.....	9.36	Edrman ave., extd	Samuel Richard	Store-house.	19 5, 6 chem.	7	One and a-half story frame.	Loss, $650.00. Recall 11.40 p. m.; lightning.
Friday	8 73	.....	9.40	....	.....	.....	.....	.....	....	Recall 9.57 p. m.; box pulled for preceding fire.
Friday	8 All-10.	.....	10.49	407 and 409 North st.	Monticello Distilling Co.	Distillery.	.....	.....	Four-story brick.	Loss, none. Recall 11.11 p. m.; unnecessary alarm.
Friday	8 226 77	.....	11.54	351 Forrest st.	B. Simon.	Confectionery and dwelling.	6, 9	1	Two-story brick.	Loss, $10.00. Recall 12.04 a. m.; carelessness with matches.
Satur'y	9 463	3.15	.....	346 S. Stricker st.	J. E. McClellan.	Store and dwelling.	.....	10	Three-story Brick.	Loss, none. Recall 3.34 a. m.; spontaneous combustion.

Satur'y	9	415	11.30	.....	308 W. Baltimore st.	James C. Smith.	Lunch room.	1	.....	Five-story brick.	Loss, none. Recal 11.46 a. m.; fat boiling over.
Satur'y	9	634	.....	7.32	20 Burrough st.	Thomas Hooper	Dwelling.	.....	.....	Three-story brick.	Loss, $11.50. Recall 7.41 a.m.; overflow of gasoline stove.
Sunday	10	431	.....	8.24	745 W. Lombard st.	Tedfrod Browne and others.	Saloon and dwelling.	1, 2, 8, 10, 15	2, 4	Four-story brick.	Loss, $594.85. Recall 10.00 p. m.; unknown.
Sunday	10	527	.....	8.34	113 S. Howard st.	Unoccupied.	Building.	2d sec. 15	.....	Three-story brick.	Loss, none. Recall 8.46 p. m.; unknown.
Mond'y	11	638	1.44	.....	B. & O. R. R. Pier, 30 Locust Point.	.....	Steamship.	.....	.....	.....	Loss, none. Recall 2.09 a. m.; unknown.
Mond'y	11	187	10.28	.....	820 Luzerne st.	Alexandria Daprinski.	Dwelling.	.....	.....	Two-story brick.	Loss, $189.89. Recall 10.54 a. m.; children playing with matches.
Mond'y	11	184	10.31	.....	.....	.....	.....	.....	.....	.....	Loss, none. Recall 10.41 a. m.; box pulled for preceding fire.
Mond'y	11	425	.....	9.22	.....	.....	.....	.....	.....	.....	Loss, none. Recall 9.30 p. m.; false alarm.
Mond'y	11	Si-l't	.....	4.20	900 S. High street.	Wong Dew.	Laundry and and tenme't.	3	.....	Two-story brick.	Loss, $12.00. Heat from stove.
Tues'y	12	358	5.34	.....	1212 Guilford ave.	Tobey Butler.	Dwelling. (Outhouse.)	.....	5	One-story frame.	Loss, $12.00. Recall 6.50 a. m.; unknown.
Tues'y	12	326	.....	8.58	620 Pitcher street.	George Lilly.	Dwelling.	13	.....	Three-story brick.	Loss, $13.75. Recall 9.19 p. m.; unknown.

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Tues'y 12	Si-l't	11.20	.....	533 W. Baltimore street.	J. Goldstein.	Umbrella factory.	.....	2	Two-story brick.	Loss, $7.40; Electric wire.
Wedn'y 13	Si-l't	11.00	.....	127½ Harrison st.	Solomon Friedman.	Tenement.	.....	1	Four-story brick.	Loss, none; overheated stovepipe.
Wedn'y 13	Si-l't	.....	2.15	1436 Aisquith st.	John Rowe.	Dwelling.	.....	5	Two-story brick.	Loss, none. Filling lighted gasoline stove.
Wedn'y 13	226	.....	8.10	390 Forrest street.	Morris Buslan.	Store and dwelling.	.....	.....	Three-story brick.	Loss, $5.00. Recall 8.15 p. m.; upsetting lighted candle.
Wedn'y 13	Si-l't	6.55	.....	2 W. 21st street.	Thomas Hamer.	Manure pit.	.....	.....	.....	Loss, none. Purposely set on fire.
Thur'y 14	498	2.39	.....	North side Franklin road—Calverton.	Unoccupied.	Mill.	14	8	Five-story stone.	Loss, $50.00. Recall 3.34 a. m.; unknown.
Thurs'y 14	155	11.48	.....	243 S. Dallas st.	Anna Gunther.	Dwelling.	.....	3	Two-story brick.	Loss, $30.00. Recall 11.59 a. m.; children playing with matches.
Thurs'y 14	472	.....	5.48	South side of Patterson avenue west of Fulton avenue.	Western Maryland R. R. Co.	Freight platform.	.....	10	.....	Loss, none. Recall 6.13 p. m.; sparks from locomotive.
Friday 15	Si-l't	5.45	.....	123 S. High st.	N. Ziprian.	Dwelling.	3	.....	Two-and-a-half-story brick.	Loss, none. Explosion of gasoline stove.

Friday	15	Si-l't	6.15	.....	323 Roland ave., Baltimore Co.	Rich'd Edmonds	Dwelling.	21	.....	Two-and-a-half story stone and frame.	Loss, none; unknown.
Friday	15	381	9.27	.....	1616 Presstman st.	Joseph Fuller.	Dwelling.	.....	10	Three-story brick.	Loss, none. Recall 9.41 a. m.; sparks from chimney.
Friday	15	287	.....	1.30	13 Reese street.	Amos Armacost.	Stable.	4 Chem.	.....	Two-story frame.	Loss, none. Recall 1.39 p. m.; unknown.
Satur'y	16	216	.....	9.34	428 Short street.	Charles Jones.	Dwelling.	.....	.....	Two-story and attic brick.	Loss, $32.50. Recall 9.42 p. m.; explosion of a coal-oil lamp.
Sunday	17	164	12.29	.....	2002 Spruce alley.	Joseph Collins.	Dwelling.	.....	3	Two-and-a-half story brick.	Loss, $45.00. Recall 12.37 a.m.; lighted match igniting can of gasoline.
Sunday	17	252	3.51	.....	1232 Greenmount avenue.	James Brown.	Grocery store and dwelling.	.....	5	Three-story brick.	Loss, none. Recall 3.59 a. m.; explosion of a coal-oil lamp.
Sunday	17	166	5.24	.....	909 Fell st.	Henry Sullman.	Tenement.	.....	3	Three-story brick.	Loss, $32.25. Recall 5.31 a. m.; unknown.
Sunday	17	166	.....	5.39	Church, Lane & Co.'s Wharf.	Balto. Dredging Co.	Steam Tug George C. Foster.	.....	3	.....	Loss, $30.00. Recall 6.11 p. m.; unknown.
Sunday	17	Si-l't	11.00	.....	127 W. Fort ave.	Wm. Seigel.	Dwelling.	.....	.....	Two-story brick.	Loss, none. Explosion of gasoline stove.
Sunday	17	527	.....	6.50	121 S. Howard st.	A. Blondheim.	As a yard.	2, 10, 15	2, 6	.....	Loss, $173.00. Recall 8 p. M., unknown.

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Sunday 17	438	.....	7.05	128 Scott st.	Edward Hannickman.	Dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 7.19 p. m.; lighted cigarette igniting lounge.
Mond'y 18	246	.....	2.12	1218 Ashland ave.	Robert J. Hadgins.	Dwelling.	.....	5	Two-story and attic brick.	Loss, none. Recall 2.20 p. m.; explosion of coal-oil stove.
Mond'y 18	541	.....	4.57	824 S. Eutaw st.	Robert Carroll.	Dwelling.	2	6	Three-story brick.	Loss, $25. Recall 5.10 p. m.; unknown.
Mond'y 18	163	.....	10.06	7 S. Chester st.	George Dornling.	Dwelling.	.....	3	Two-story brick.	Loss, $63.90. Recall 10.18 p. m.; boy falling with lighted lamp.
Mond'y 18	Si-l't	10.05	.....	450 W. Biddle st.	Wm. H. Dawson.	Drug store & dwelling.	.....	4	Three-story brick.	Loss, $52.50; drugs ignited by a lighted alcohol lamp.
Tues'y 19	Si-l't	.....	5.00	606 E. Baltimore street.	Chas. Schmidt.	Clothing store & dwelling.	.....	1	Three-story brick.	Loss, none; electric wire.
Tues'y 19	Si-l't	.....	8.48	830 N. Broadway.	Chas. B. Zeigler.	Dwelling.	9	.....	Three-story brick.	Loss, $166.82; unknown.
Tues'y 19	Si-l't	3.40	.....	809 N. Charles st.	George B. Reynolds.	Yard (fence.)	7	.....	In rear of three-story brick.	Loss, $25.00; unknown.
Tues'y 19	Si-l't	.....	10.00	528 Louisiana ave.	F. W. Lawrence.	Grocery store.	.....	2	Three-story brick.	Loss, none; electric wire.

Wedn'y 20	Spc'l	12.10	.....	264 N. Exeter st.	Balthus Zoliner.	Work shop.	.....	.....	Three-story brick.	Loss, $79.05; electric wire.
Wedn'y 20	243	.....	1.06	610 Ensor st.	J. P. Schultz.	Store and dwelling.	4, 6	5	Three-story brick.	Loss, $841.94. Recall 2.06 p. M.; unknown.
Wedn'y 20	Sil't	1.00	.....	Lexington street.	City of Baltimore.	Market house.	.....	2	One-story iron and frame.	Loss, none; electric converter.
Thurs'y 21	Sil't	10.30	.....	122 S. Wolfe st.	Nicholas Appel.	Saloon and dwelling.	.....	3	Three-story brick.	Loss, $50.00; leaking gasoline stove.
Thurs'y 21	722	.....	3.19	Stoney Run, Mt. Vernon.	Consolidated R. R. Co.	Bridge.	.....	11	.....	Loss, none; electric wire.
Thurs'y 21	336	.....	8.17	213 W. Franklin st	Moses Heiling.	Dwelling.	7	4	Three-story brick.	Loss, $225.00. Recall 8.58 p. m.; unknown.
Friday 22	184	8.10	.....	2513 to 2521 Boston street.	George Tyler.	Box factory & boiler-room.	.....	3	Two-story frame and brick.	Loss, none. Recall 8.39 a. m.; bursting of steam pipe.
Friday 22	337	.....	12.23	1230 Division st.	Catherine Conbash.	Dwelling.	13	4	Two-and-a half-story brick.	Loss, $39.85. Recall 12.54 p. m.; overheated stovepipe.
Satur'y 23	143	7.35	.....	206 Gough street.	S. Maissans.	Tenement.	3, 5	3	Three-story brick.	Loss, $333.00. Recall 8.23 a. m.; explosion of coal-oil stove.
Satur'y 23	521	.....	4.43	.....	.....	.....	.....	.....	.....	Loss, none. Recall 4.46 p. m ; accidental.
Sunday 24	631	1.10	.....	116 S. Charles st.	Henry Faudte.	Grocery and provision store.	2, 12	6	Three-story brick.	Loss, $783.00. Recall 2.17 a. m.; unknown.
Sunday 24	63	.....	3.19	118 Gittings st.	John Wagner.	Dwelling.	....	.....	Two-story brick.	Loss, none. Recall 3.25 p. m.; explosion of gasoline stove.

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Satur'y 24	421	.....	3.54	742 Waesche st.	Mary Williams.	Dwelling.	1	2	Three-story brick.	Loss, $40.00. Recall 4.21 p. m.; unknown.
Sunday 24	163	.....	8.31	12 N. Wolfe st.	Henry Miller.	Dwelling.	.....	3	Two-story brick.	Loss, $28.00. Recall 8.47 p. m.; lighted match igniting clothing.
Mond'y 25	393	.....	1.40	801 First avenue.	Mrs. E.Pyle.	Dwelling.	.....	.....	Three story brick.	Loss, none. Recall 1.53 p. m.; back draught.
Mond'y 25	123	.....	5.56	239 Smith Dock.	Matthew P.Hubbard.	Storage warehouse.	2, 3, 4, 6, 15	1, 3	Three-story-and-attic brick.	Loss, $1,088.55. Recall 8.05 p. m.; spontaneous combustion.
Mond'y 25	Si-l't	6.38	.....	2107 Frederick av.	Wm. H. Schaefer.	Plumbing shop and dwelling.	14	.....	Three-story brick.	Loss, $27.55. Explosion of gasoline stove
Mond'y 25	Si-l't	.....	4.00	600 Hanover st.	Mary Anderson.	Dwelling.	2	.....	Three-story brick.	Loss, none. Children playing with matches.
Tues'y 26	295	.....	4.21	2320 Hunter alley.	Joshua Wells.	Dwelling.	.....	.....	Two-story brick.	Loss, none. Recall 4.29 p. m.; burning rags to drive out mosquitoes.

Tues'y	26	181	.....	6.29	3001 O'Donnell st.	Solomon Herman.	Dry goods store and dwelling.	11	3	Three-story brick.	Loss, $199.15. Recall 6.59 p. m.; goods ignited by lighted gas jet.
Wedn'y	27	368	.....	1.25	783 Sarah Ann st.	Amanda Clarke.	Dwelling.	8	4	Two-story brick.	Loss, $49.00. Recall 1.49 p. m.; unknown.
Wedn'y	27	369	.....	9.02	S. E. Cor. Linden ave. and Wilson street.	City of Baltimore.	Primary School No. 14	.....	.....	Two-and-a-half-story brick.	Loss, none. Recall 9.19 p. m.; smoke from furnace.
Wedn'y	27	Sil't	.....	9.20	18 Harrison st.	Nathan Freedenburg.	Shed.	.....	1	One-story frame.	Loss, none; lighted candle igniting clothing.
Thurs'y	28	128	8.17	.....	611 Water st.	George Jackson.	Lodg'g-house.	3, 4	1	Three-story brick.	Loss, $63.86. Recall 8.39 a. m.; unknown.
Thurs'y	28	374	10.46	.....	843 North ave.	Christopher Aaron.	Dwelling.	.....	11	Three-story brick.	Loss, $87.50. Recall 11.36 a. m.; defective register.
Thurs'y	28	Sil't	.....	11.25	237 Smith Dock.	M. P. Hubbard.	Storage warehouse.	3	.....	Three-story brick.	Loss, none; spontaneous combustion.
Friday	29	266	9.19	.....	523 N. Eden st.	Peter Aemiger.	Dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 9.24 p. m.; leaking gasoline stove.
Friday	29	Sil't	.....	2.57	1836 Harford road.	August Thiel.	Bakery and dwelling.	.....	.....	Two-story brick.	Loss, $25.00; baking oven falling in.
Friday	29	Sil't	.....	6.45	571 Orchard st.	Sarah Webster.	Dwelling.	.....	.....	Three-story brick.	Loss, none; burning chimney.
Satur'y	30	393	.....	3.11	160 Cedar ave.	Mrs. Martha Diven.	Dwelling.	.....	.....	Two-story brick.	Loss, $24.50. Recall 3.16 p. m.; overheated stove.
Satur'y	30	Sil't	.....	9.40	907 N. Howard st.	Mrs. James.	Dwelling.	.....	.....	Three-story brick.	Loss, none; burning chimney.

RECORD OF FIRES AND ALARMS FOR THE YEAR ENDING DECEMBER 31, 1899.

DATE.	BOX.	A.M.	P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
October.										
Sunday 1	123	10.19	.....	239 Smith's wharf.	William P. Hubbard.	Storage warehouse.	3	1	Two and a-half story brick.	Loss, none. Recall 11.13 a. m.; spontaneous combustion.
Sunday 1	452	11.51	.....	1514 W. Lexington st.	Mrs. Carrie Taylor.	Dwelling.	.....	.....	Three-story brick.	Loss, $14.25. Recall 12.14 p. m.; explosion of a coal-oil stove.
Sunday 1	Si-l't	.....	4.38	437 Druid Hill ave	Phillip Blackburn.	Dwelling.	.....	.....	Three-story brick.	Loss, none; explosion of gasoline stove.
Mond'y 2	418	2.31	.....	226 W. Lexington st.	Wm. C. Sparks.	Drug store.	1, 4, 7, 15	1, 2	Two and a-half story brick.	Loss, $347.35. Recall 3.25 a. m.; unknown.
Mond'y 2	472	.....	2.14	S. E. cor. Woodley and Winchester sts.	Wm. Armiger.	Carp'ter shop.	13.	10	One-story frame.	Loss, $100.75. Recall 2.50 p. m.; unknown.
Mond'y 2	.....	.....	.....	1125 Woodley st.	Unoccupied.	Dwelling.	.....	.....	Two and a-half story brick.	.....
Mond'y 2	371	.....	2.20	.....	.....	.....	.....	.....	.....	Loss, none. Recall 2.37; box pulled for preceding fire.
Mond'y 2	Si-l't	.....	8.29	119 S. High st.	F. Horwitz.	Soap factory.	.....	1	Three-story brick.	Loss, none; defective flue.
Mond'y 2	Si-l't	.....	11.58	1015 Granby st.	John Fooks.	Grocery store and dwell'g.	3	.....	Two-story brick.	Loss, $35.00; unknown.

Tues'y	3	369	9.39	.....	1806 Linden ave.	Summerfield Medairy.	Dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 9.49 a. m.; back draught.
Tues'y	3	313	.....	2.14	2 E. Franklin st.	Athenaeum Club	Club House.	7	4	Three-story brick.	Loss, none. Recall 2.29 p. m.; unknown.
Tues'y	3	68	.....	7.38	Cor. Marshall and Winder sts.	Matthai & Ingram.	Tin factory.	.....	.....	Five-story brick.	Loss, none. Recall 7.45 p. m.; fire from cupola.
Wedn'y	4	23	7.09	.....	219 N. Eden st.	George McCready.	Kitchen.	6	5	One-story frame.	Loss, $61.50. Recall 7.30 a. m.; overheated stove-pipe.
Wedn'y	4	434	10.59	.....	123 S. Carrollton ave.	Robert Scharf.	Dwelling.	10	.....	Two-story brick.	Loss, $52.50. Recall 11.14 a. m.; children playing with matches.
Wedn'y	4	541	.....	7.03	311 W. Montgomery st.	James Scott.	Dwelling.	2	6	Three-story brick.	Loss, $35.00. Recall 7.18 p. m.; unknown.
Wedn'y	4	Si-l't	10.45	.....	526 Hulzeman's court.	Michael Hogan.	Kitchen.	11	.....	One-story frame.	Loss, $42.19; overheated stove-pipe.
Thurs'y	5	392	5.22	.....	2803 Remington ave.	William Jones.	Dwelling.	.....	.....	Two-story brick.	Loss, $10.00. Recall 5.33 a. m.; clothing ignited by lighted coal-oil lamp.
Friday	6	237	2.02	.....	437 N. Washington st.	John Praley.	Saloon and dwelling.	9	5	Three-story brick.	Loss, $174.15. Recall 2.32 a. m.; unknown.
Friday	6	157	.....	5.47	816 S. Bond st.	Jas. Mioezewski.	Salooon and tenement.	.....	3	Two-storyand attic brick.	Loss, $52.00. Recall 6.12 p. m.; explosion of gasoline stove.

RECORD OF FIRES AND ALARMS FOR THE YEAR ENDING DECEMBER 31, 1899.

DATE.	BOX.	A.M.	P.M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Friday 6	187	.....	10.32	607 S. Luzerne st.	Charles French.	Storage-house	5, 9, 11	3	Three-story brick.	Loss, $338.70. Recall 11.53 p. m.; unknown.
Friday 6	562	10.32	.....	1226 Hanover st.	John Davis.	Dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 10.39 a. m.; explosion of a stove.
Friday 6	56	.....	3.06	915 Leadenhall st.	August Tirole.	Dwelling.	.....	6	Three-story brick.	Loss, $40.50. Recall 3.20 p. m.; overheated flue.
Satur'y 7	62	10.30	.....	23 Weyler st.	Charles Soneley.	Dwelling.	.....	6	Three-story brick.	Loss, $16.50. Recall 10.38 a. m.; explosion of gasoline stove.
Satur'y 7	Spc'l	.....	6.30	1407 Argyle ave.	Michael Lehman.	Dwelling.	.....	.....	Three-story brick.	Loss, $55.00; unknown.
Satur'y 7	Si-l't	5.50	.....	1551 Clifton st.	Mrs. Albert Gumpman.	Dwelling.	Chem. 2	.....	Two-story frame.	Loss, $5.00; overheated stove-pipe.
Sunday 8	466	10.08	.....	331 Forrest st.	Wm. Holmes.	Dwelling.	14	10	Two-story brick.	Loss, $118.25. Recall 10.36 a. m.; explosion of a gasoline stove.
Sunday 8	633	.....	2.45	....	....	....	.....	.....	....	Loss none. Recall 2.54 p. m.; false alarm.
Sunday 8	Si-l't	.....	1.47	1001 E. Baltimore street.	Lewis Isaacs.	Cloak factory and dwelling	3	.....	Three-story brick.	Loss, $15.00. Heat from gas stove.

Sunday	8	Si-l't	.....	8.23	309 E. Baltimore street.	Katz & Sons.	Tailoring establishment.	4	.....	Three-story brick.	Loss, $43.05. Electric wire.
Mond'y	9	861	.....	4.58	S. W. cor. Howard and Pratt sts.	Sharp & Dohme	Manufacture's of medicines.	.....	.....	Seven-story brick.	Loss none. Recall 5.12 p. m.; testing box.
Mond'y	9	237	.....	5.40	416 N. Chester st.	Frank Sorce.	Shed.	.....	.....	One-story frame.	Loss $10.00. Recall 5.53 p. m.; overflow of gasoline.
Mond'y	9	23	.....	7.20	211 N. Central ave.	Henry Dashner.	Dwelling.	.....	.....	Two-story and attic brick.	Loss, none. Recall 7.29 p. m.; leaking gasoline stove.
Mond'y	9	Si-l't	11.09	.....	322 Barclay street.	Nicholas Mills.	Dwelling.	18	.....	Two-story brick.	Loss, $10.00. Defective flue.
Mond'y	9	479	.....	8.13	.....	.....	Dwelling.	.....	.....	.....	Loss, none: Recall 8.30 p. m.; false alarm.
Tues'y	10	387	5.46	.....	Elgin ave., west of Reisterstown rd.	Unoccupied. (Hoffman est'e.)	Dwelling.	13, 20 2 Chem.	10	Two-story brick and frame.	Loss $8,133.33. Recall 9.59 a. m.; unknown.
Tues'y	10	Si-l't	8.02	.....	505 Friendship av.	Andrew J. McCormick.	Dwelling.	.....	7	Two-story brick and frame.	Loss, none; burning chimney.
Tues'y	10	All-10. 862	.....	1.34	511 to 521 W. Conway street.	S. B. Sexton & Sons.	Stove manufacturer.	.....	.....	Four-story brick.	Loss, none. Recall 1.48 p. m.; false alarm.
Tues'y	10	632	.....	6.01	605 Harvey street.	William Brown.	Dwelling.	12	.....	Two-story brick.	Loss, $43.50. Recall 6.13 p. m.; explosion of gasoline stove.
Wedn'y	11	733	.....	4.28	950 N. Washington street.	Chas. Korowek.	Dwelling.	.....	.....	Two-story brick.	Loss, $9.00. Recall 4.39 p. m.; gas explosion from lighted candle.

RECORD OF FIRES AND ALARMS FOR THE YEAR ENDING DECEMBER 31, 1899.

DATE.	BOX.	A.M.	P.M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Wedn'y 11	373	.....	4.39	1321 N. Fremont avenue.	Jacob Fizone.	Stable.	13, 2 Chem.	10	One-story frame.	Loss $122.00. Recall 5.39 p. m.; unknown.
Wedn'y 11	382	.....	6.02	510 Gold street.	John Jones.	Dwelling.	.....	.....	Two-story brick.	Loss, none. Recall 6.19 p. m.; back draught.
Thurs'y 12	536	1.06	.....	S. side of Columbia ave., ext.	Pitcher & Creager.	Brick-yard.	10	6	.....	Loss, none. Recall 1.36 a. m.; overheated brick kiln.
Thurs'y 12	562	.....	12.24	1436 S. Charles st.	Mrs. Mary Lewis	Dwelling.	.....	.....	Three-story brick.	Loss none. Recall 12.30 p. m.; explosion of gasoline stove.
Thurs'y 12	512	.....	1.58	110 S. Charles st.	A. H. Linderman.	Clothes cleaning and repair'g shop.	15	2	Three-story brick.	Loss, $51.50. Recall 2.16 p. m.; explosion of can of benzine.
Thurs'y 12	142	.....	4.13	300 S. Exeter st.	B. Rashinski.	Grocery store and tenement.	3, 5	3	Three-story brick.	Loss, $70.00. Recall 4.27 p. m.; gasoline ignited by lighted match.
Friday 13	38	4.16	.....	2225 Brunt st.	Fredk. Woodland (col.)	Grocery store and dwelling	2 Chem.	10	Two-story brick.	Loss, $138.00. Recall 5.18 a. m.; mice gnawing matches.

Friday	13	229	9.35	.....	121 Jones' Court.	Sallie Miller.	Dwelling.	9	3	Two-story brick.	Loss, $62.00. Recall 9.57 a. m.; children playing with matches.
Friday	13	226	....	4.50	406 Forrest st.	Fannie Goldberg & others.	Dwelling.	6	.....	Three-story brick.	Loss, $21.92. Recall 5.02 p. m.; explosion of gasoline stove.
Friday	13	145	.....	10.19	1235 Jackson st.	Jacob Sickle.	Dwelling.	....	3	Three-story brick.	Loss, $40.00. Recall 10.38 p. m.; sparks from stove pipe.
Satur'y	14	545	.....	7.08	1155 W. Cross st.	F. Hegler.	Grocery store and dwelling.	10	....	Three-story brick.	Loss, $75.00. Recall 7.20 p. m.; gasoline tank ignited by lighted match.
Sunday	15	Si-l't	1.20	.....	1316 Hanover st.	John Reckard.	Dwelling.	....	6	Three-story brick.	Loss, $5.18; unknown.
Mond'y	16	531	12.15	.....	312 S. Fremont st.	Mrs. Mary Jones.	Dwelling.	....	.....	Two and a-half story brick.	Loss, none. Recall 12.25 a. m.; explosion of coal-oil lamp.
Mond'y	16	271	.....	5.56	911 N. Durham st.	Mary Kaprabek.	Dwelling.	9	.....	Two-story brick.	Loss, $16.25. Recall 6.10 p. m.; explosion of a gasoline stove.
Tues'y	17	Si-l't	.....	2.08	624 E. Balto. st.	Edward Clark.	Dwelling.	....	1	Three-story brick.	Loss, none. Leaking gasoline stove.
Tues'y	17	425	.....	7.01	909 W. Balto. st.	P. W. Gundersheimer.	Dry goods store.	8	2	Three-story brick.	Loss, $51.99. Recall 7.20 p. m.; electric wire.
Wedn'y	18	286	9.07	.....	502 Jefferson st.	John Deise.	Dwelling.	....	.....	Two and a-half story frame.	Loss, $12.00. Recall 9.34 a. m.; overflow of gasoline stove.

Date.	Box.	A.M.	P.M.	Locality.	Occupant.	How Occupied.	Engines in Service.	H. & L. in Serv'ce	Building.	Remarks.
Wedn'y 18	153	.....	3.39	534 S. Bond st.	Jacob Livinsou.	Tailor shop & dwelling.	.....	3	Two and a-half story brick.	Loss, $16.00. Recall 3.48 p. m.; filling gasoline stove while burning.
Wedn'y 18	Sp c'l.	.....	6.15	344 Elm ave.	Stewart Ryan.	Dwelling.	.....	.....	Two-story frame.	Loss, none. Curtain ignited by gasoline stove.
Wedn'y 18	176	.....	6.16	210 Montford ave. 212 Montford ave. 214 Montford ave.	Mary Ritter. Wm. Simmons. Henrietta Carr.	Shed. Shed. Shed.	5, 9, 11	3	One-story frame. One-story frame. One-story frame.	Loss, $221.93. Recall 7.09 p. m.; gasoline tank ignited by lighted matches.
Wedn'y 18	215	.....	8.10	232 Chestnut st.	Frank Wilson.	Dwelling.	.....	.....	Two-story and attic brick.	Loss, none. Recall 8.16 p. m; unknown.
Thurs'y 19	426	4.34	.....	1312 Hollins st., in rear.	J. H. Adams & Co.	Shed.	8, 14	2	One-story frame.	Loss, $444.00. Recall 6.14 a. m.; unknown.
Thurs'y 19	Si-l't	11.02	.....	1119 Riggs avenue.	F. Shaw.	Dwelling.	13	.....	Two-story brick.	Loss, $15.00. Children playing with matches.
Thurs'y 19	612	.....	12.53	643 Light street.	Mary Baker.	Dwelling.	.....	.....	Two-and-a-half story brick.	Loss, $40.10. Recall 1.02 p. m.; explosion of gasoline stove.

Thurs'y 19	494	.....	1.41	1823 Third street.	Mrs. Uhler.	Dwelling.	20	.....	Two-story brick.	Loss, $70.00. Recall 2.10 p. m.; explosion of gasoline stove.
Thurs'y 19	547	.....	6.30	Foot of Howard st.	Wm. Grecht.	Packing house	.....	.....	Two-story brick.	Loss, none. Recall 6.40 p.m.; blowing off steam.
Thurs'y 19	Si-l't	.....	5.15	514 Biddle alley.	Laura Champion (colored.)	Dwelling.	.....	4	Two-story brick.	Loss, $40.co; unknown.
Satur'y 21	561	2.05	....	Corner Stockholm and Leadenhall streets.	Maryland Bask't Co.	Stable. (A box car.)	2	6	One-story frame.	Loss, $35.00. Recall 2.38 a. m.; unknown.
Satur'y 21	141	4.05	.....	800 Canton avenue	Otto Duker.	Planing mill and sash factory.	3, 4, 5, 6	1, 3	Two-story brick.	Loss, none. Recall 5.05 a. m.; sparks from boiler.
Satur'y 21	514	.....	7.12	411 and 413 Dover street.	Philip Scott.	Dwelling.	1, 2, 10, 15	1, 2, 4, 6	Three-story brick.	Loss, none. Recall 8.14 p. m.; unknown.
Sunday 22	262	12.04	.....	1016 N. Gay street	Philip Markel.	Barber shop & dwelling.	.....	.....	Three-story brick.	Loss, $8.00. Recall 12.11 a. m.; explosion of a coal-oil stove.
Sunday 22	367	12.40	.....	1109 Shields alley.	Wm. Burris.	Dwelling.	.....	.....	Two-story brick.	Loss, $10.00. Recall 12.48 a. m.; upsetting of coal-oil lamp.
Sunday 22	65	.....	1.57	1 W. Borey street.	Aug. Weinhold.	Grocery store and dwelling	.....	6	Two-story brick.	Loss, $25.25. Recall 2.09 p. m.; overheated stovepipe.
Sunday 22	463	.....	4.35	434 Parrish alley.	Wm.H. Richardson.	Dwelling.	.....	.....	Two-story brick.	Loss, $28.00. Recall 5.23 p. m.; upsetting of a coal-oil stove.

DATE.	BOX.	A.M.	P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Sunday 22	25	.....	4.56	409 E. Chase st.	John Gunning.	Dwelling.	.....	5	Three-story brick.	Loss, $106.00. Recall 5 13 p. m.; upsetting coal-oil heater
Sunday 22	381	.....	9.15	.....	.....	.....	.....	.....	.....	Loss, none. Recall 9.22 p. m.; false alarm.
Mond'y 23	164	.....	3.05	2008 Gough street.	John W. Barton.	Dwelling.	5	3	Three-story brick.	Loss, $198.00. Recall 3.39 p. m.; mice gnawing matches.
Mond'y 23	Si-l't	.....	1.40	306 N. Carey st.	V. A. Williams.	Grocery store and dwelli'g	8	.....	Three-story brick.	Loss, $40.00; unknown.
Mond'y 23	61	.....	3.23	633 Light st.	Morris Levi.	Grocery store and dwelli'g	2	6	Two-story brick.	Loss, $65.00. Recall 3.36 p. m.; unknown.
Mond'y 23	457	.....	8.46	1226 Mosher st.	F. A. Reese.	Dwelling.	13	10	Two-story brick.	Loss, $30.00. Recall 9.01 p. m.; careless handling of matches.
Tues'y 24	633	.....	1.51	.....	.....	.....	.....	.....	.....	Loss, none. Recall 1.57 p. m.; accidental alarm.
Tues'y 24	162	.....	3.39	912 S. Wolfe st.	Martha Gayouski.	Tenement (in yard).	.....	.....	.....	Loss, none. Recall 3.46 p. m.; explosion of a gasoline stove.

Tues'y	24	262	.....	8.12	1046 N. Broadway.	Samuel Collins.	Dwelling.	.....	5	Three-story brick.	Loss, $35.00. Recall 8.21 p. m.; lighted match ignited couch.
Wedn'y	25	471	9.45	.....	1811 W. Franklin st.	Mrs. Virginia Hopper.	Dwelling.	.....	10	Two-story brick.	Loss, $5.75. Recall 9.55 a. m.; defective flue.
Thurs'y	26	Si-l't	.....	6.00	1310 Holbrook st.	John Duryer.	Dwelling.	.....	5	.....	Loss, none. Explosion of a coal-oil lamp
Thurs'y	26	233	.....	8.30	.....	.....	.....	.....	.....	.....	Loss, none. Recall 8.39 p. m.; false alarm.
Thurs'y	26	332	.....	8.48	704 Madison ave.	M. Greenburg.	Tailor store and dwell'g.	7	4	Three-story brick.	Loss, $429.00. Recall 9.06 p. m.; lighted paper igniting a bottle of benzine.
Thurs'y	26	Si-l't	.....	11.57	817 E. Baltimore st.	Mrs. Joseph Beard.	Dwelling.	.....	.....	Two-story and attic brick.	Loss, none. Smoke from stovepipe.
Friday	27	Sp c'l	.....	12.30	N. W. Cor. Hopkins ave. and Monument st.	Hebrew hospital	Hospital.	.....	.....	Three-story brick.	Loss, $92.50; alcohol ignited by gas lamp.
Satur'y	28	Sp c'l	.....	5.00	1615 Clifton place.	Florence Engles	Dwelling.	.....	.....	Two-story brick.	Loss, none; overflowing of a gasoline stove.
Sunday	29	485	1.09	.....	.....	.....	.....	.....	.....	.....	Loss, none. Recall 1.28 a. m.; false alarm.
Sunday	29	7	.....	1.18	N. E. Cor. Hampden ave. and 24th st.	Congregation of 24th St. M. E. Church.	Church.	18	11	One-story frame.	Loss, 28.00. Recall 1.28 p. m.; defective flue.
Sunday	29	246	.....	9.07	.....	.....	.....	.....	.....	.....	Loss, none. Recall 9.12 p. m.; false alarm.

RECORD OF FIRES AND ALARMS FOR THE YEAR ENDING DECEMBER 31, 1899.

DATE.	BOX.	A. M.	P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Mond'y 30	317	1.48	.....	602 Hargrove alley	Henrietta Jenkins.	Dwelling.	4, 6	4	Two-story and attic, brick.	Loss, $138.47. Recall 2.22 a. m.; unknown.
Mond'y 30	Alto. 878	.....	4.38	318 and 320 W. Baltimore st.	Rouse, Hempstone & Co.	Ladies' and gents' furnishing goods	.....	.....	Six-story brick.	Loss $4.75. Recall 4.45 p. m.; lighted match thrown among waste paper.
Mond'y 30	Si-l't	.....	8.45	Cor. Fayette and Ann streets.	United R. R. Co	Car.	.....	3	One-story frame.	Loss, none. Burning out of controller.
Tuesd'y 31	134	5.05	.....	713 Eastern ave.	Wm. V. Wilson.	Office.	3	1	One-story brick.	Loss, $25.00. Recall 5.18 a. m.; electric wire.
Tuesd'y 31	636	7.36	.....	In front of Hance Pottery.	.....	.....	.....	.....	.....	Loss, none. Recall 7.48 a. m.; unnecessary alarm.
Tuesd'y 31	23	.....	6.59	313 Lewis street.	Jas. L. Demson.	Dwelling.	.....	3	Two-story brick.	Loss, $64.35. Recall 7.23 p. m.; unknown.
November Wedn'y 1	141	2.28	.....	825 Eastern ave.	Antonio Conie and others.	Tenement.	3	1	Three-story brick.	Loss, $106.51. Recall 2.47 a. m.; upsetting of coal-oil lamp.
Thurs'y 2	297	.....	6.38	.....	.....	.....	.....	.....	.....	Loss, none. Recall 6.48 p. m.; false alarm.

Friday	3	387	3.32	2103 Fulton ave.	George Gemppe	Dwelling.			Three story brick.	Loss, $40.00. Recall 3.47 p. m.; explosion of gasoline stove.
Friday	3	34	4.12	908 N. Charles st.	Unoccupied.	Dwelling.	7	4	Four-story brick.	Loss, none. Recall 4.41 p. m.; burning chimney.
Friday	3	483	5.37	18 Stinson street.	Wm. Harvey.	Dwelling.		8	Two-story brick.	Loss, $17 50. Recall 5.54 p. m.; upsetting a coal-oil lamp.
Friday	3	152	8.10	234 S. Broadway.	J. M. Appel.	Furniture store and dwelling.		3	Three-story brick.	Loss, none. Recall 8.21 p. m.; defective insulation.
Friday	3	Spc'l	8.25	1625 Canton ave.	Saml. Goodman.	Dwelling.			Two-story frame.	Loss, none. Burning soot.
Friday	3	Si-l't	12.22	12 Hort alley.	Nancy Randall.	Dwelling.		7	Two-story frame.	Loss, none. Burning chimney.
Friday	3	247	9 25	518 Aisquith st.	Isaac Moritz.	Tailor shop and dwelling.	6	5	Three-story brick.	Loss, $27.75. Recall 9.46 p. m.; explosion of a coal-oil lamp.
Satur'y	4	295	6.44	2229 N Charles st.	Eben Hunting.	Dwelling.		11	Three-story brick.	Loss none. Recall 6.56 p. m.; burning chimney.
Satur'y	4	473	10.35							Loss, none. Recall 10.45 p. m ; false alarm.
Satur'y	4	Si-l't	10.15	501 W. Fayette st.	Union League.	Club-house.			Three-story brick.	Loss, none. False alarm.
Satur'y	4	Si-l't	8.17	411 S. Howard st.	Robt. F. Tinker	Grocery store and dwelling.			Two-and-one-half-story brick.	Loss, none. Explosion of gasoline tank.

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Sund'y	5 241	12.03	.....	802 Healey's court	Johanna Shea.	Dwelling.	6	1	Two-story brick.	Loss $24.52. Recall 12.19 a. m.; unknown.
Sunday	5 722	10.23	.....	2612 Huntingdon ave.	Jacob Wolfe.	Dwelling.	6	1	Two-story brick.	Loss, $35.00. Recall 10.29 a. m.; explosion of coal-oil stove.
Sunday	5 465	.....	5.33	2014 W. Pratt st.	Lewis Richwein	Wheelwright shop and dwelling.	14	10	Three-story brick.	Loss, $110.70. Recall 5.57 p. m.; explosion of a coal-oil stove.
Sunday	5 Si-l't	.....	11.30	1031 N. Calvert st.	Edward Shoemaker.	Dwelling.	.....	.....	Three-story brick.	Loss, none; defective electric wire.
Mond'y	6 247	12.39	.....	591 N. Gay st.	Annie Boylan.	Millinery store and dwelling.	9	5	Two-story and attic brick.	Loss, $42.00. Recall 12.55 a. m.; unknown.
Mond'y	6 528	.....	5.28	414 Hanover st.	Mrs. W. C. Reynolds.	Dwelling.	.....	.....	Three-story brick.	Loss, $40.00. Recall 5.39 p. m.; coal-oil stove taking fire.
Mond'y	6 Si-l't	.....	9.57	614 Aisquith st.	Kate Ridgeway.	Dwelling.	6	.....	Two-story brick.	Loss, none; burning chimney.
Tues'y	7 128	6.49	.....	619-621 Second st.	George A. Schall	Edge Tool Co.	.....	1	Two-story brick.	Loss, $26.70. Recall 7.01 a. m.; unknown.

Tues'y	7	151	.....	12.19	1404 E. Lombard st.	Minnie Wiener.	Tenement.	3	3	Three-story brick.	Loss, $25.00. Recall 12.37 p. m. Carelessness with matches.
Tues'y	7	32	.....	2.19	332 St. Paul st.	Unoccupied.	Dwelling.	4, 7	2	Two-story brick.	Loss, $25.00. Recall 2.50 p. m.; sparks from chimney.
Tues'y	7	Si-l't	.....	12.09	115 S. Exeter st.	Harry Metzer.	Dwelling.	3	.....	Three-story brick.	Loss, none; coal-oil spilled on stove.
Tues'y	7	Si-l't	.....	11.35	111 Albemarle st.	M. Kahlmann.	Store and dwelling.	3	.....	Three-story brick.	Loss, $75.00; upsetting lighted candle.
Tues'y	7	Si-l't	.....	7.30	Bed of Pearl st., So. of Lexington	.....	Street.	1	.....	.....	Loss, none; purposely set on fire.
Tues'y	7	Si-l't	.....	8.25	Bed of Liberty st.	.....	Street.	1	.....	.....	Loss, none; purposely set on fire.
Wedn'y	8	Si-l't	5.00	.....	1209 Winchester st	Isaac Caster (col.).	Oyster saloon and dwelling	13	.....	Three-story brick.	Loss, $5.00; unknown.
Wedn'y	8	Si-l't	.....	5.48	Oakhurst ave. and Bloomingdale rd	Mrs. D. C. Morgan.	Farm.	3 Chem.	.....	.....	Loss, none; unknown.
Wedn'y	8	523	.....	6.05	400 S. Paca st.	John Kolita.	Dwelling.	2, 15	2	Three-story brick.	Loss, $55.00. Recall 6.18 p. m.; filling a lighted coal-oil lamp.
Wedn'y	8	562	.....	11.27	1617 Olive st.	James Kirby.	Dwelling.	.....	6	Two-story brick.	Loss, $30.00. Recall 11.52 p. m.; overheated stove-pipe.
Thurs'y	9	427	1.45	.....	502 W. Lexington street.	S. Frank & Son.	Paper warehouse.	1, 15	2, 4	Three story brick.	Loss, $710. Recall 2.52 a. m.; unknown.
Thurs'y	9	Si-l't	.....	10.52	15 S. Fulton ave.	Walter Kerwin.	Dwelling.	.....	.....	Three-story brick.	Loss, $52.50; lighted gas jet igniting clothing.

RECORD OF FIRES AND ALARMS FOR THE YEAR ENDING DECEMBER 31, 1899.

DATE.	BOX.	A.M.	P.M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Friday 10	385	7.50	.....	1745 Park ave.	Jos. S. Denton.	Out-house.	18	11	One-story frame.	Loss, $63.00. Recall 8.05 a. m.; hot ashes.
Friday 10	638	11.34	.....	2216 E. Fort ave.	Wm. Hogal.	Dwelling.	17	.....	Three-story brick.	Loss, none. Recall 11.49 a. m.; defective flue.
Friday 10	Si-l't	.....	2.11	914 W. Mulberry street.	William Langschmidt.	Dwelling.	8	.....	Three-story brick.	Loss, $20.00; unknown.
Friday 10	Si-l't	.....	4.46	Franklin Road.	Hugh Gelston.	Woods.	3 Chem.	.....	.....	Loss, none; unknown.
Friday 10	518	.....	6.29	Ranstead Wharf.	Robert Moog & Company.	Kindling Wood Mill.	2, 10, 15	6	Two-story frame.	Loss, $364.31. Recall 7.33 p. m.; unknown.
Friday 10	Si-l't	.....	6.35	Liberty Road.	Geo. R. Vickers.	Woods.	20	.....	.....	Loss, none; unknown.
Satur'y 11	526	4.54	.....	213-215 W. Camden street.	Furst Bros.	Picture-frame factory.	2	2	Three-story brick.	Loss, none. Recall 5.18 a. m.; unknown.
Satur'y 11	357	8.45	.....	131 W. Hoffman st.	James Thomas.	Dwelling.	7	.....	Two-story brick.	Loss, $22.00. Recall 9.04 a. m.; unknown.
Sunday 12	381	9.52	.....	1225 Presstman st.	William Moore, (col.)	Dwelling.	13	10	Three-story brick	Loss, $90.00. Recall 10.16 a. m.; lighted torch igniting clothing.

Sunday 12	435	.....	12.30	S. W. corner Pratt and Scott sts.	Hayward & Bartlett.	Shed.	4, 8, 10, 14, 15	2	One-story frame.	Loss,———. Recall 2.18 p. m.; unknown.
Sunday 12	337	.....	1.55	1217 Wilmer's alley.	Wm. H. Gautt.	Dwelling.	7	10	Two-story brick.	Loss, $138.00. Recall 2.35 p. m.; unknown.
Sunday 12	541	.....	5.27	N.W. cor. Howard & Henrietta sts.	B. & O. Power-house.	Power-house.	.....	.....	One-story brick.	Loss, none. Recall 5.37 p. m.; blowing out of tube in boiler.
Mond'y 13	285	1.37	.....	157 Jackson st.	Michael Fox.	Dwelling.	5 Chem.	.....	Two-story frame.	Loss none. Recall 2.12 a. m.; unknown.
Mond'y 13	187	6.35	.....	570 Cannon st.	John Friedenwald.	Dwelling.	11	.....	Two-story brick.	Loss, $70.00. Recall 6.54 a. m.; careless handling of matches.
Mond'y 13	246	.....	6.40	Aisquith st., north of Ashland ave.	Notre Dame Convent.	Religious and school purposes.	.....	.....	Four-story brick.	Loss, $77.00. Recall 7.23 p. m.; turpentine and beeswax ignited by lighted candle.
Mond'y 13	Si-l't	.....	10.00	Mt. Royal ave.	....	Music Hall.	.....	5	Two-story brick.	Loss, none. Palms ignited by lighted gas jet.
Tues'y 14	533	1.25	.....	759 Columbia ave.	Martin Alhight.	Hat store and dwelling.	2, 10, 15	2, 6	Three-story brick.	Loss, $1,177.19. Recall 2.26 a. m.; unknown.
Tues'y 14	341	.....	10.35	2 W. Biddle st.	Thos. D. Whistler.	Dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 10.46 p. m.; smoking coal-oil stove.
Wedn'y 15	385	2.24	.....	2028 Park ave.	Wm. E. Swindell.	Outhouse.	.....	11	One-story frame.	Loss, $34.75. Recall 3.03 a. m.; spontaneous combustion.

RECORD OF FIRES AND ALARMS FOR THE YEAR ENDING DECEMBER 31, 1899.

DATE.	BOX.	A.M.	P.M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Wedn'y 15	624	8.45	.....	164 W. West st.	Annie Walker.	Dwelling.	.....	6	Three-story brick.	Loss, none. Recall 8.53 a. m.; overheated stovepipe.
Wedn'y 15	229	.....	4.21	203 N. Castle st.	Ada Stickler.	Dwelling.	.....	.....	Three-story brick.	Loss, $35.44. Recall 4.30 p. m.; sparks igniting a can of gasoline.
Thurs'y 16	Si-l't	6.26	.....	209 E. Falls ave.	Samuel J. Dixon	Mattress factory.	3	.....	Three-story and attic brick.	Loss, $19.85. Heat from stove.
Thurs'y 16	Si-l't	.....	12.10	48 Market Space.	Joseph O'Donnell.	Clothing store and dwelling	.....	1	Three-story brick.	Loss, $29.25. Unknown.
Friday 17	151	11.39	.....	1503 E. Baltimore street.	Wm. F. Theide.	Dwelling.	.....	.....	Three-story and attic brick.	Loss, $15.00. Recall 11.50 a. m,; heat from coal-oil stove
Friday 17	336	.....	1.43	403 N. Howard st.	Lauer Bros.	Cabinetmaker establishment.	.....	.....	Three-story brick.	Loss, none. Recall 1.51 p. m.; lighted match ignited can of varnish.
Friday 17	543	.....	10.42	1332 to 1336 William st.	John J. Fahey.	Stable.	2, 12	6	Two-story brick.	Loss, $3,446.46. Recall 1.16 a. m.; unknown.
.....	.....	.....	.....	1338 William st. ext.	Anthony Ruhman.	Dwelling.	.....	.....	Two-story brick.	.....
Satur'y 18	493	7.10	.....	777 Church st.	Ella Harris.	Dwelling.	20	.....	Two-story frame.	Loss, none. Recall 7.30 a. m.; burning chimney.

atu r' 18	Si-l't	9.22	.....	1425 McCulloh st.	Mrs. Lucy Hyatt	Dwelling.	.....	.....	Three-story brick.	Loss, $20.71. Smoke issuing from chair board.
Sunday 19	474	.....	12.53	1810 Mosher st.	G. W. Gettier.	Grocery store and dwelling.	.....	10	Two-story brick.	Loss, $22.50. Recall 1.16 p. m.; mice gnawing matches.
Mond'y 20	512	8.19	.....	8 Uhlers alley.	Geo. L. Mowen.	Manfs. of shovels and shuttles fastenings.	15	2	Two-story brick.	Loss, $25.00. Recall 8.31 a.m.; unknown
Mond'y 20	515 2d alm	.....	7.17 7.25	318 Cider alley.	Chas. M. Stieff.	Sterli'g Silver Mfg. Co.	1, 2, 4, 10, 15	1, 2, 4	Three-story brick.	Loss, ———. Recall 9.14 p. m.; heat from smelting furnace.
Tues'y 21	Si-l't	9.47	.....	1301 Hanover st.	Frank Wagner.	Cigar store & dwelling.	.....	6	Three-story brick.	Loss, $10.00; defective flue.
Wedn'y 22	264	6.47	... .	720 N. Caroline st.	Elizabeth Ross.	Dwelling.	.....	.....	Two-story and attic brick.	Loss, none. Recall 6.54 a. m.; leaking coal-oil stove.
Wedn'y 22	442	11.11	.....	112 N. Pine st.	George L. Jones.	Dwelling.	.....	2	Three-story brick.	Loss, $72.25. Recall 11.23 a. m; overheated coal-oil stove.
Wedn'y 22	525	.....	5.25	28 W. Pratt st.	Anchor Brand Mfg. Co.	Manfrs. of extracts.	2, 4, 15	2	Three-story brick.	Loss, $361.00. Recall 5.53 p. m.; unknown.
Thurs'y 23	472	.....	8.41	1308 Bruce st.	Thomas Bryan.	Dwelling.	.....	10	Two-story brick.	Loss, $10.00. Recall 8.59 p. m.; lighted lamp igniting lace.
Thurs'y 23	Si-l't	7.05	.....	27 S. Howard st.	D. B. Taylor.	Stove dealer.	.....	.....	Four-story brick.	Loss, none; defective flue.

RECORD OF FIRES AND ALARMS FOR THE YEAR ENDING DECEMBER 31, 1899.

DATE.	BOX.	A M.	P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Friday 24	377	6.36	.....	1726 Maryland av.	Randolph King.	Dwelling.	.....	.....	Three-story stone.	Loss, $19.00. Recall 6.41 a. m.; explosion of a coal-oil lamp.
Friday 24	441	.....	10.03	15 N. Charles st.	Sanders & Stayman.	Musical instruments.	.....	2	Five-story iron and stone.	Loss, $360.00. Recall 10.15 p. m.; electric wire.
Friday 24	163	.....	10.57	2034 E. Balto. st.	Edw. R. Cleaveland.	Dwelling.	.....	.....	Three-story brick.	Loss none. Recall 11.19 p. m.; back draught.
Satur'y 25	Si-l't	.....	5.10	124 N. Paca st.	Mrs. Louisa Kaufman.	Dwelling.	.....	.....	Three-story brick.	Loss, $22.00. Unknown.
Satur'y 25	442	.....	11.03	631 Vine st.	Mrs. Mary Thomas.	Dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 11.11 p. m.; upsetting stove.
Sunday 26	Si-l't	.....	6.49	2124 Oak st.	John H. C. Williams.	Dwelling.	18	11	Three-story brick.	Loss, $679.70. Unknown.
Mond'y 27	155	.....	2.00	250 S. Spring st.	Ella Turner.	Tenement.	.....	3	Three-story brick.	Loss, $40.00. Recall 2.14 p. m.; sparks from stove.
Mond'y 27	Si-l't	.....	5.53	South side Balto., nr. Hanover st.	.....	Teleg. pole.	.....	.....	.....	Loss, none; electric wire.
Mond'y 27	442	.....	8.02	638 Raborg st.	Mrs. Florence Hall.	Dwelling.	.....	2	Three-story brick.	Loss, $139.95. Recall 8.22 p. m.; lighted gas jet igniting curtain.

Mond'y 27	525	.....	9.58	30 W. Pratt st.	Annie Parker (col.)	Dwelling.	.....	.....	Three-story brick.	Loss none. Recall 10.05 p. m.; burning rubbish.
Mond'y 27	182	.....	11.17	2324 Essex street.	Annie Slipper.	Tenement.	11	.....	Three-story brick.	Loss, $15.00. Recall 11.32 p. m.; upsetting coal-oil lamp.
Mond'y 27	Si-l't	.....	3.12	1113 Little Wilson street.	Susie Worthington.	Dwelling.	.....	.....	Two-story brick.	Loss, none. Defective flue.
Tuesd'y 28	153	5.15	.....	607 S. Bond street.	Joseph Zbowroski.	Tenement.	5	3	Three-story brick.	Loss, $47.00. Recall 5.47 a. m.; defective flue.
Tuesd'y 28	Sp c'l	10.22	.....	1025 York road.	David Moses.	Shirt factory.	.....	.....	Two-and-one-half-story brick.	Loss, none. Overheated stove.
Tuesd'y 28	Si-l't	9.52	.....	1419 Clarkson st.	John Fritz.	Dwelling.	.....	6	Two-and-one-half-story brick.	Loss, $12.50. Overheated stove.
Tuesd'y 28	Si-l't	12.30	.....	129 Roseland st.	Samuel Long.	Grocery store & dwelling.	.....	6	Two-and-one-half-story brick.	Loss, $19.50. Defective flue.
Tuesd'y 28	68	.....	8.03	1906 Light street.	Edward Heintz.	Dwelling.	.....	.....	Three-story brick.	Loss, none. Recall 8.10 p. m.; upsetting of gasoline stove.
Wedn'y 29	341	3.36	.....	1129 St. Paul st.	Wm. L. Wilson.	Dwelling.	.....	4	Three-story brick.	Loss, none. Recall 3.44 a. m.; spontaneous combustion.
Wedn'y 29	353	11.35	.....	1528 Mt. Royal av.	Patrick Kennidy	Dwelling.	.....	11	Three-story brick and stone.	Loss, $198.00. Recall 11.45 a. m.; unknown.
Wedn'y 29	Si-l't	.....	12.45	847 N. Howard st.	E. Deichman.	Preparatory school and dwelling.	7	.....	Three-story brick.	Loss, $60.00. Defective flue.
Wedn'y 29	241	.....	6.35	705 Hillen street.	John Smith.	Dwelling.	4, 6	1	Two-story and attic brick.	Loss, $198.00. Recall 6.59 p. m.; explosion of a coal-oil lamp.

RECORD OF FIRES AND ALARMS FOR THE YEAR ENDING DECEMBER 31, 1899.

DATE.	BOX.	A.M.	P.M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Wedn'y 29	492	.....	9.31	59 Garrison lane.	George F. Nutroline.	Barber shop & dwelling.	.....	8	Two-story brick.	Loss, $62.00. Recall 9.43 p. m.; unknown.
Wedn'y 29	434	.....	9.45	1309 W. Pratt st.	Mrs. M. Cook.	Dwelling.	.....	.....	Three-story brick.	Loss, $9.00. Recall 10.05 p.m.; defective flue.
Wedn'y 29	633	.....	2.14	.....	.....	.....	.....	.....	.....	Loss, none. Recall 2.21 p. m.; accidental alarm.
Thurs'y 30	Si-l't	.....	6.18	213 Harrison st.	Jacob Solomon.	Dwelling.	.....	.....	Two-story brick.	Loss, none. Filling lighted gasoline stove.
December										
Friday 1	286	11.23	.....	114 Montobello av.	Columbus Butler	Dwelling.	4, 5 Chem.	7	Two-story frame.	Loss, $177.68. Recall 11.58 a. m.; overheated stove pipe.
Friday 1	246	.....	1.33	1314 Ashland ave.	Henry Muller.	Cabinet shop & dwelling.	6, 9	5	Two-story brick.	Loss, $165.75. Recall 1.57 p. m.; unknown.
Friday 1	.....	.....	.....	917 Smith alley extended.	Stephen Clarke.	Dwelling.	....	.....	....	....
Satur'y 2	4	.....	2.52	212 E. Baltimore street.	Geo. A. O'Donnell & Co.	Book Bindery.	1, 3, 4, 6, 15	1, 2	Four-story brick.	Loss, $1,416.51. Recall 3.58 p. m.; unknown.
Satur'y 2	Si-l't	.....	7.24	S. E. Cor. Exeter and Watson sts.	David Denze.	Saloon and dwelling.	3	.....	Two-story brick.	Loss, $14.65; careless handling of matches.

Satur'y	2	12	.....	7.34	407 E. Baltimore street.	Frederick Hooker and others.	Jewelry establishment.	3, 4		1	Three-story brick.	Loss, ———. Recall 7.55 p. m.; unknown.
Satur'y	2	Si-l't	11.54	.....	805 Druid Hill ave.	John Cordery.	Dwelling.	7		4	Two-and-a-half-story brick.	Loss, ———; unknown.
Sunday	3	232	.....	5.35	1639 E. Fayette st.	Edward C. Barbage.	Dwelling.	9		3	Three-story brick.	Loss, ———. Recall 6.03 p. m.; unknown.
Sunday	3	421	.....	11.09	227 Myrtle ave.	John P. Knell.	Dwelling.	8		2	Three-story brick.	Loss, ———. Recall 11.32 p. m.; unknown.
Sunday	3	Si-l't	.....	7.55	S. E. Cor. Bush and Ridgely sts.	Samuel Tyler.	Shed (storage)	10		.....	One-story frame.	Loss, ———; maliciously set on fire.
Mond'y	4	322 2d alm	6.17 6.32	.....	South side of Little Ross, between Eutaw and Howard sts.	Johns Hopkins University.	College.	1, 4, 7, 8, 10, 13, 15	2, 4, 10		Three-story brick and Mansard.	Loss, $26,698.40. Recall 10.51 a. m.; unknown.
Mond'y	4	Si-l't	.....	3.52	325 N. Fremont avenue.	A. Strohmer.	Fence, shed store and dwelling.	8		.....	One-story frame.	Loss, ———; unknown.
Mond'y	4	182	.....	4.03	2303 to 2309 Boston st.	John S. Gibbs.	Packing house	.....	.....	.....	Three-story brick.	Loss, ———. Recall 4.14 p. m., explosion of gasoline.
Mond'y	4	445	.....	5.51	828 W. Saratoga street.	James Kernan.	Dwelling.	.....	.....	.....	Two-story and attic brick.	Loss, ———. Recall 6.10 p. m.; explosion of coal-oil stove.
Mond'y	4	Si-l't	.....	9.12	4 W. Biddle st.	F. K. Murphy.	Dwelling.	.....	.....	.....	Three-story brick.	Loss, ———; defective flue.
Mond'y	4	Si-l't	.....	1.15	201-203 N. Howard street.	Hochschild and Kohn.	Department store.	.....	.....	.....	Five-story brick.	Loss, ———; back draught.
Tues'y	5	561	.....	6.44	S. E. Cor. Leadenhall and Ostend streets.	Henry Slim.	Shed.	.....		6	One-story frame.	Loss, ———. Recall 7.10 p. m.; unknown.

Date.	Box.	A.M.	P. M.	Locality.	Occupant.	How Occupied.	Engines in Service.	H. & L. in Serv'ce	Building.	Remarks.
Tues'y 5	Sil't	6 09	.....	112 Albemarle st.	Hess Hulseman.	Tenement.	3	.....	Three-story brick.	Loss ——; lighted candle igniting shavings
Tues'y 5	Sil't	11.55	.....	840 Park ave.	Miss E. F. King.	Dwelling.	7	.....	Three-story stone.	Loss, ——; defective construction of hearth.
Tues'y 5	Sil't	.....	2.27	1128 Cathedral st.	John W. Williams.	Dwelling.	.....	.....	Three-story brick.	Loss, ——; back draught.
Tues'y 5	Sil't	10.57	.....	1284 Battery ave.	William Oest.	Grocery store and dwelling.	12	.....	Three-story brick.	Loss, ——; overheated stovepipe.
Tues'y 5	Sil't	.....	2.35	125 W. Barre st.	Nathan Weinstein.	Dwelling.	.....	.....	Three-story brick.	Loss, ——. Child playing with fire.
Wedn'y 6	Sil't	2.05	.....	228 N. Gay st.	Thos. J. Price.	Hardware store and dwelling.	6	.....	Three-story brick.	Loss, ——. Overheated stove.
Wedn'y 6	469	11.38	.....	23 Lohr's lane.	Saml. Williams.	Dwelling.	.....	8	Three-story frame	Loss, ——. Recall 11.51 a. m.; unknown.
Wedn'y 6	Sil't	.....	8.05	222 N. Caroline st.	Henry C. Horner	Dwelling.	6	.....	Three-story brick.	Loss, ——. Burning chimney.
Thurs'y 7	Sil't	10.42	.....	123 N. Greene st.	Wm. E. Oppelt.	Cigar store & dwelling.	1	.....	Three-story brick.	Loss, ——. Defective flue.
Thurs'y 7	Sil't	.....	5.30	340 Rose street.	Frank Nevins.	Dwelling.	.....	4	Two-and-one-half-story brick.	Loss, ——. Children playing with matches.

Friday	8	155	.....	3.42	328 S. Dallas st.	John Lloyd.	Dwelling.	.....	.....	Two-and-one-half-story brick.	Loss, ———. Recall 3.50 p. m.; children playing with fire.
Friday	8	Si-l't	4.15	.....	411 N. Exeter st.	Selig Steideman	Dwelling.	6	.....	Three-story brick.	Loss, ———. Burning chimney.
Friday	8	732	.....	4.29	1722 Oliver st.	Saml. Primrose.	.....	9, 19	5	Two-story brick.	Loss, ———. Recall 4.56 p. m.; children playing with lighted candle.
Friday	8	291	.....	7.34	419 E. Huntingdon avenue.	Unoccupied.	Dwelling.	.....	11	Three-story brick.	Loss, ———. Recall 7.54 p. m.; explosion of gas.
Friday	8	161	.....	7.45	628 S. Wolfe st.	John Hipsley.	Stable.	3, 5, 9, 11	3	One-story frame.	Loss, ———. Recall 8.44 p. m.; unknown.
Friday	8	Si-l't	8.52	.....	795 Mulberry st.	Emma Beverly	Dwelling.	8	.....	Two-story brick.	Loss, ———. Explosion of gasoline stove.
Friday	8	479	.....	9.45	1727 Friendsbury street.	Mary L. Dorsey.	Dwelling.	13 Chem, 2	10	Two-story brick.	Loss, ———. Recall 10.48 p. m.; unknown.
Friday	8	Spc'l.	.....	10.20	933 Franklin st.	B. F. Sheckells.	Dwelling.	.....	.....	Three-story brick.	Loss, ———. Burning chimney.
Friday	8	36	.....	10.50	1004 N. Arlington avenue.	Owen J. Murphy	Dwelling.	8	4	Three-story brick.	Loss, ———. Recall 11.12 p. m.; unknown.
Satur'y	9	493	8.20	.....	2839 Rayner ave.	Mrs. M. E. Horn	Dwelling.	20 Chem, 1	8	Two-story brick & mansard.	Loss, ———. Recall 9.14 a. m.; defective flue.
Satur'y	9	167	.....	1.07	504 S. Broadway.	Chas. Barkman.	Toy and confectionery store.	.....	.....	Three-story brick.	Loss, ———. Recall 1.16 p. m.; explosion of a gasoline lamp.

DATE.	BOX.	A.M.	P.M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Sunday 10	423	.....	3.30	722 W. Baltimore street.	Frank Moran.	Store and dwelling.	.....	.....	Three-story brick.	Loss, ———. Recall 3.40 p. m.; smoking coal-oil stove.
Mond'y 11	Si-l't	7.58	.....	1628 Linden ave.	W. Abraham.	Dwelling.	.....	.....	Three-story brick.	Loss, ———; burning chimney.
Tues'y 12	538	.....	3.31	.....	.....	.....	.....	.....	.....	Loss, ———. Recall 3.37 p. m.; false alarm.
Tues'y 12	145	.....	5.43	1620 E. Baltimore st.	Nathan Meyerberg.	Dwelling.	.....	3	Two-and-one-half-story brick.	Loss, ———. Recall 6.03 p. m.; unknown.
Tues'y 12	Sp c'l	.....	5.45	431 W. Conway st.	Mrs. Mary Keys	Dwelling.	.....	.....	Two-and-one-half-story brick.	Loss, ———; heat from gasoline stove.
Tues'y 12	387	.....	7.26	2735 Pennsylvania ave.	William Storm.	Saloon and dwelling.	.....	10	Two-and-one-half-story brick.	Loss, ———. Recall 8.00 p. m.; burning chimney.
Tues'y 12	375	.....	9.03	.....	.....	.....	.....	.....	.....	Loss, ———. Recall 9.13 p. m.; false alarm.
Wedn'y 13	155	7.53	.....	205 S. Bond st.	Wm. T. Morgan	Dwelling.	.....	.....	Three-story brick.	Loss, ———. Recall 8.07 a. m.; shellac boiling over on stove.

Wedn'y 13	241	.....	9.14	817 N. Front st.	Paul Schall.	Grocery store and dwelling.	6	1	Two-and-one-half-story brick.	Loss, ———. Recall 9.26 p. m.; lighted candle ignited gasoline.
Wedn'y 13	Si-l't	2.15	.....	11 E. Twenty-first st.	John S. Ditch.	Apartment house.	.....	11	Three-story brick.	Loss, ———; electric wire.
Wedn'y 13	Si-l't	10.30	.....	2444 Etting st.	James Werts.	Dwelling.	Chem 2.	.....	Two-story brick.	Loss, ——— ; unknown.
Wedn'y 13	Si-l't	.....	5.16	301 E. Fort ave.	Lutz Bros.	Cigar store and dwelling.	12	.....	Three-story brick.	Loss, ———; lighted match ignited curtain.
Thurs'y 14	215	7.02	.....	1118 E. Lexington st.	Lottie Johnson.	Dwelling.	6	1	Three-story brick.	Loss, ———. Recall 7.27 a. m.; upsetting lighted candle
Thurs'y 14	636	7.51	.....	1140 Hull st.	Wm. McKall.	Dwelling.	.....	6	Two-story brick.	Loss, ———. Recall 8.04 a. m.; defective flue.
Thurs'y 14	337	.....	8.10	1131 Druid Hill ave.	Unoccupied.	Dwelling.	7	4	Three-story brick.	Loss, ———. Recall 8.50 p. m.; unknown.
Thurs'y 14	Si-l't	8.20	.....	1626 W. Lanvale st	Wallace Morris.	Dwelling.	.....	10	Three-story brick.	Loss, ——— ; unknown.
Thurs'y 14	Si-l't	.....	9.00	1526 Byrd st.	J. W. Garbey.	Dwelling.	12	.....	Two-story brick.	Loss, ——— ; unknown.
Friday 15	319	10.30	.....	719 N. Charles st.	Mrs. H. L. Whitridge.	Dwelling.	7	4	Three-story brick.	Loss, ———. Recall 10.51 a. m.; burning chimney.
Friday 15	18	.....	3.12	2901 O'Donnell st.	Saml. Hamphire	Grocery store and club rooms.	11	.....	Two-story brick.	Loss, ———. Recall 3.28 p. m.; stepping on match.
Friday 15	312	.....	4.56	203 Clay st.	Adolph Schuster	Mattress factory.	1, 7	1, 2	Three-story brick.	Loss, ———. Recall 7.12 p. m.; electric wire.

DATE.	BOX.	A. M.	P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Friday 15	152	.....	6.45	1604 E. Pratt st.	Simon Jacob.	Dwelling.	.....	3	Three-story brick.	Loss, ———. Recall 7.02 p. m.; overheated coal-oil heater.
Friday 15	388	.....	7.28	713 Reservoir st.	Albert Simon.	Dwelling.	.....	11	Three-story brick.	Loss, ———. Recall 7.47 p. m.; lighted candle igniting curtain.
Friday 15	712	.....	11.00	Falls Road and Chestnut ave.	Mt. Vernon Cotton Duck Co.	Cotton mills.	21	11	Three-story brick.	Loss, ———. Recall 12.48 a. m.; unknown.
Friday 15	Si-l't	.....	3.58	702 Milliman st.	George Conroy.	Dwelling.	9	.....	Two-story brick.	Loss, ———. Burning chimney.
Satur'y 16	Si-l't	6.50	.....	1402 Brunt st.	Jennie Watkins, (col.)	Dwelling.	13	.....	Two-story brick.	Loss, ———. Unknown.
Satur'y 16	415	7.03	.....	S. E. Baltimore & Eutaw sts.	Friedenwald Printing Co.	Printing and Lithograph'g Co.	.....	2	Six-story brick.	Loss, ———. Recall 8.05 a. m.; explosion of gas.
Satur'y 16	145	11.57	.....	14 S. Central ave.	Joseph Nathan.	Saloon and dwelling.	.....	.....	Three-story brick.	Loss, ———. Recall 12.08 p. m.; explosion of a coal-oil stove.
Satur'y 16	394	.....	1.44	N.W. Cor. Third & Roland ave.	James P. Benson	Chicken coop and fence.	.....	9	One-story frame.	Loss, ———. Recall 1.54 p. m.; children playing with matches.

Satur'y 16	187	.....	4.34	714 S. Luzerne st.	Emma Schlinger	Shed.	11	.....	One-story frame.	Loss, ———. Recall 4.52 p. m.; unknown.
Sunday 17	187	5.35	.....	2533 Eastern ave.	Henry Riveohll.	Dwelling.	11	3	Two-story brick.	Loss, ———. Recall 6.09 a. m.; carelessness with matches.
Sunday 17	423	.....	1.51	641 Raborg st.	Lucy Larkin.	Dwelling.	1, 15	2	Two-and-one-half story brick.	Loss, ———. Recall 2.30 p. m.; unknown.
Mond'y 18	18	11.18	.....	1201 Chesapeake st	Margaret Bowers	Shed.	11	.....	One-story frame.	Loss, ———. Recall 11.30 a. m.; heat from stovepipe.
Mond'y 18	527	.....	2.33	319 S. Howard st.	William Betzold, (col.)	Dwelling.	2	2	Two-story brick.	Loss, ———. Recall 3.00 p. m.; unknown.
Mond'y 18	61	.....	5.59	31 Lee st.	Mary Brown.	Lodging house	2, 15	6	Three-story brick.	Loss, ———. Recall 6.46 p. m.; unknown.
Mond'y 18	496	.....	7.39	Pressbury & Tenth streets.	George H. Campbell.	Stable.	20 Chem. 3	.....	Two-story frame.	Loss, ———. Recall 8.39 p. m.; unknown.
Tuesd'y 19	442	1 05	.....	639 W. Fayette st.	Henry Beck.	Dwelling.	.....	2	Three-story brick.	Loss, ———. Recall 1.15 a. m.; overheated stove.
Tuesd'y 19	524	1.39	.....	16 E. Barre st.	George F. Sloan and Bro.	Sawmill.	2	6	Three-story brick.	Loss, ———. Recall 1.49 a. m.; unknown.
Tuesd'y 19	561	.....	5.15	S. E. cor. Stockholm and Leadenhall sts.	Maryland Veneer Company	Manufactures of veneer fence and out-houses.	2	6	One-story frame.	Loss, ———. Recall 5.42 p. m.; unknown.

DATE.	BOX.	A.M.	P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Tuesd'y 19	146	.....	5.43	905 E. Pratt st.	Benj. Yeoffin.	Provision store and dwelling.	3	1	Two-story and attic brick.	Loss, ———. Recall 6 p. m.; explosion of a coal-oil lamp.
Tuesd'y 19	Si-l't	8.17	.....	1007 Harmony lane.	Alberta Chambers.	Dwelling.	8	.....	Two-story brick.	Loss, ———; overheated stove.
Wedn'y 20	Si-l't	4.15	.....	1208 Aisquith st.	Ewald Schneider.	Dwelling.	.....	5	Two-story brick.	Loss, ———; unknown.
Wedn'y 20	Si-l't	7.45	.....	184 Harford ave.	Albert Krischki.	Dwelling.	19	.....	Two-story brick.	Loss, ———; burning chimney.
Thurs'y 21	514	7.10	.....	N. W. cor. Eutaw and Pratt sts.	Herman Dubner	Hotel.	15	2	Four-story brick.	Loss, ———. Recall 7.29 a. m.; unknown.
Thurs'y 21	Spc'l	10.50	.....	1436 Aisquith st.	John H. Rowe.	Dwelling.	.....	.....	Two-story brick.	Loss, ———; children playing with matches.
Thurs'y 21	273	.....	7.45	.....	.....	.....	.....	.....	.....	Loss, ———. Recall 7.53 p. m.; false alarm.
Thurs'y 21	Si-l't	7.55	.....	706 E. Baltimore st	Jos. Schmoezi.	Dwelling.	.....	.....	Three-story brick.	Loss, ———; unknown.
Thurs'y 21	Spc'l	6.00	.....	1027 Hopkins ave.	Mrs. Carrie V. Stevens.	Dwelling.	.....	.....	Three-story brick.	Loss, $23.00; spark from lighted match igniting portieres.
Friday 22	397	6.52	.....	Merryman's lane and Cedar ave.	Standard Oil Co.	Pump-house (shed.)	21	9	One-story iron.	Loss, ———. Recall 7.42 a. m.; electric sparks.

Friday	22	397	10.37	.....	Merryman's lane and Cedar ave.	Standard Oil Co.	Pump-house (shed.)	21	9	One-story iron.	Loss, ——. Recall 11.23 a. m.; unknown.
Friday	22	35	.....	4.14	934 Mason alley.	John Frisby.	Dwelling.	7	.....	Two-story brick.	Loss, ——. Recall 4.30 p. m.; unknown.
Friday	22	62	.....	8.44	1108 Elizabeth lane	Louis Wise.	Dwelling.	.....	.....	Three-story brick.	Loss, ——. Recall 8.51 p. m.; misplaced damper.
Satur'y	23	56	.....	4.42	1003 Sharp st.	James Willis.	Dwelling.	2, 15	6	Three-story brick.	Loss, ——. Recall 5.12 p. m.; can of gasoline ignited by heat from stove.
Sunday	24	189	2.15	.....	.....	.....	.....	.....	.....	.....	Loss, ——. Recall 2.24 a. m.; false alarm.
Sunday	24	Si-l't	11.09	.....	1124 Clarkson st.	Mary Bond.	Dwelling.	.....	6	Two-story brick.	Loss——; children playing with fire.
Sunday	24	65	.....	8.36	2131 Hanover st.	Andrew Hamburger.	Dwelling.	.....	6	Two-story brick.	Loss, ——. Recall 8.55 p. m.; unknown.
Sunday	24	Spc'l	10.00	.....	1027 William st.	Maggie Jones.	Dwelling.	.....	.....	Two-story brick.	Loss, ——; lighted candle ignited portieres.
Sunday	24	Si-l't	.....	5.55	826 E. Balto. st.	Bernard Freedman.	Dry goods store and dwelling.	3	.....	Three-story brick.	Loss, ——; unknown.
Mond'y	25	Si-l't	.....	1.48	143 S. Exeter st.	Moses Cohen.	Saloon and dwelling.	3	.....	Three-story brick.	Loss, ——; unknown.
Mond'y	25	241	.....	2.57	509 N. Front st.	Peter Siek.	Cloth'g mnfrs. & dwelling.	6	1	Two-story-and-attic brick.	Loss, ——. Recall 3.28 p. m.; unknown.

RECORD OF FIRES AND ALARMS FOR THE YEAR ENDING DECEMBER 31, 1899.

DATE.	BOX.	A.M.	P.M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Mond'y 25	355	.....	7.05	866 Tyson alley (court).	John Hayward.	Dwelling.	7	4	Two-story-and -attic brick.	Loss, ———. Recall 7.27 p. m.: unknown.
Mond'y 25	274	.....	11.19	1214 N. Chester st.	Wm. P. Offley.	Dwelling.	19	5	Two-story-and -attic brick.	Loss, ———. Recall 11.39 p. m.; defective construction of hearth.
Tues'y 26	152	.....	12.41	254 S. Bethel st.	Jerry Mundawney.	Dwelling.	.....	3	Two-story-and -attic brick.	Loss, ———. Recall 1.20 p. m.; burning chimney.
Tues'y 26	526	.....	3.49	212 W. Camden st.	Sam'l Sesanats.	Dwelling.	1, 2, 10, 15	2	Two and one-half story brick.	Loss, ———. Recall 5.09 p. m.; unknown.
Tues'y 26	264	.....	7.41	1433 E. Monument street.	Charles Young.	Dwelling.	.....	.....	Two-story-and- attic brick.	Loss, ———. Recall 7.48 p. m.; upsetting a lighted candle.
Tues'y 26	Sp c'l	.....	9.00	Cor. Mt. Royal & Maryland aves.	Milton Alvin Opera Co.	Music hall.	.....	3	Three-story brick.	Loss, ———; electric wire.
Tues'y 26	Si-l't	.....	6.20	554 Biddle alley.	John L. Krenzer.	Provis'n store.	.....	4	Two-story brick.	Loss, ———; woodwork ignited by lighted lamp.
Tues'y 26	Si-l't	.....	12.25	1320 N. Charles st.	Wyatt & Nolting.	Shed.	7	.....	One-story frame.	Loss, ———; unknown.
Tues'y 26	Si-l't	.....	3.59	624 N. Eutaw st.	Francis Crosby.	Bicycle store & dwelling.	7	.....	Three-story brick.	Loss, ———; upsetting coal-oil stove.

Wedn'y 27	Spc'l	.....	10.30	505 S. Caroline st.	Rose Greanburg.	Dwelling.	.....	.....	Two-story frame.	Loss, ———; flames from oil stove.
Wedn'y 27	Sl't	.....	3.25	461 Forrest st.	Clementina Lemon.	Market Stall.	6	.....	.....	Loss, ———; unknown.
Wedn'y 27	Sl't	.....	4.55	N.W.cor. Saratoga and Calvert sts.	City Hospital.	Hospital.	.....	.....	Five-story brick.	Loss, ———; lighted paper ignited curtain.
Thurs'y 28	214	2.49	.....	119 N. High st.	Rolesstein & Rosenstein.	Clothing manufacturers.	4, 6	1	Three-story brick.	Loss, ———. Recall 3.55 a. m.; overheated stove.
Thurs'y 28	572	5.35	.....	Garrison ave., near Kate avenue.	Mrs. C. A. Oakford.	Green house.	20 Chem. 3	8	One-story frame.	Loss, ———. Recall 7.31 a. m.; unknown.
Thurs'y 28	38	.....	12.49	614 Chappell st.	John Taylor.	Dwelling.	.....	.....	Three-story brick.	Loss, ———. Recall 12.51 p. m.; unknown.
Thurs'y 28	Spc'l	11.45	.....	208 Aisquith st.	Edward P. McDevitt.	Office.	.....	.....	One-story brick.	Loss, ———. Overheated stove.
Friday 29	Sl't	10.50	.....	116 N. Greene st.	Henry P. Ohm.	Dwelling.	1	.....	Three-story brick.	Loss, ———. Defective flue.
Friday 29	Sl't	.....	9.37	2442 Maryland ave	Mrs. Lavilla Newman.	Dwelling.	.....	11	Three-story brick.	Loss, ———. Overheated furnace.
Friday 29	639	10.56	.....	1211 Cooksie st.	Herman Manther.	Shed.	17	.....	Two-story frame.	Loss, ———. Recall 11.16 p. m.; unknown.
Satur'y 30	Sl't	9.08	.....	28 Centre Market space.	John R. Dalrymple.	Junk shop.	.....	1	One-story frame.	Loss, ———. Unknown.
Satur'y 30	497	9.10	.....	2036 Payson street.	John Flanigan.	Dwelling.	Chem. 2	.....	Two-story brick.	Loss, ———. Recall 9.31 p. m.; thawing out water pipe.
Satur'y 30	152	11.19	.....	1732 E. Lombard street.	Mary Voelker.	Undertaking establishm't and dwelling.	.....	.....	Three-story brick	Loss, ———. Recall 11.25 a. m.; can of gasoline ignited by hot stove.

DATE.	BOX.	A.M.	P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERV'CE	BUILDING.	REMARKS.
Satur'y 30	Sil't	.....	1.57	N. Front st., betw. Lexington and Fayette.	St. Vincent's Congregation.	Church.	.....	1	One-story brick.	Loss, ———. Defective flue.
Satur'y 30	Sil't	.....	4.12	417 Falls road.	Thomas Wells.	Dwelling.	.....	9	Two-story frame.	Loss, ———. Defective flue.
Satur'y 30	314	.....	6.43	207 W. Franklin st.	Mrs. John B. Meyer.	Dwelling.	.....	4	Four-story brick.	Loss, ———. Recall 7.02 p. m.; burning chimney.
Satur'y 30	254	.....	7.49	1802 Barclay st.	Frederick Small	Dwelling.	.....	.....	Three-story brick.	Loss, ———. Recall 8.09 p. m.; unknown.
Sunday 31	323	12.22	.....	606 W. Lanvale st.	Mary Woods, (colored.)	Dwelling.	.....	4	Three-story brick.	Loss, ———. Recall 12.36 a. m.; upsetting coal-oil stove.
Sunday 31	284	9.36	.....	405 Montebello av.	Tilghman Schofield.	Dwelling.	.....	.....	Two-story and attic frame.	Loss, ———. Recall 9.49 a. m.; explosion of coal-oil stove.
Sunday 31	733	11.33	.....	946 N. Washington street.	Alex. Nutrill.	Dwelling.	9	.....	Two-story brick.	Loss, ———. Recall 11.44 a. m.; unknown.
Sunday 31	Sil't	.....	7.50	1322 S. Charles st.	John Muhly.	Bakery and dwelling.	.....	6	Two-story brick.	Loss, ———. Defective flue.

Annual Report

—— OF THE ——

GENERAL SUPERINTENDENT OF LAMPS

—— AND ——

INSPECTOR AND SEALER OF GAS METERS

—— TO THE ——

Mayor and City Council of Baltimore

—— FOR THE ——

Fiscal Year Ending December 31, 1899

BALTIMORE:
WM. J. C. DULANY COMPANY, CITY PRINTERS.

1900

REPORT.

OFFICE OF THE GENERAL SUPERINTENDENT OF LAMPS AND INSPECTOR AND SEALER OF GAS METERS.

CITY HALL ANNEX,

BALTIMORE, January 2, 1900.

To the Honorable the Mayor and City Council of Baltimore.

GENTLEMEN: I have the pleasure of presenting the Twentieth Annual Report of this Department, showing the appropriations, receipts and disbursements, and the general operations of affairs relating to the lighting of the City for the year ending December 31st, 1899:

There are now in use in the City proper:

Electric arc lamps	1325
Gas lamps	5272
Gasoline lamps	327

There are now in use in the City Annex:

Electric arc lamps	66
Gas lamps	960
Gasoline lamps	758

Making a total of eight thousand seven hundred and eight (8708) lamps used in lighting the City.

ELECTRIC LAMPS.

The electric lamps are supplied by contract with the United Electric Light and Power Company. The contract was made for one year, which expires September 7th, 1900, at the price of thirty-five cents per lamp per night, all lamps to burn from sunset to daybreak.

The contractors furnish all the plant and attend to all the work connected therewith.

Owing to the City placing conduits in the streets it was deemed advisable at the time the contract was awarded that

it may have been detrimental to the City's interest to have made the contract for a longer term than one year. At the expiration of a one-year contract it was anticipated the subways would be far enough advanced that the making of a new contract could provide a way for placing the wires for electric lighting in them, thus removing the dangerous overhead wires and unsightly poles, especially from that section of the city where the subways are completed.

A copy of the Specifications, which are a part of the electric light contract:

1. Bids must be submitted in sealed envelopes, addressed to "The Board of Awards," in care of J. Frank Supplee, and indorsed "Proposals for Electric Lights."

2. All bids must be for lights now in service, and any others that may be ordered erected.

3. A current strength sufficient to develop and maintain the full and normal candle power of a nominal 2,000 candle-power lamp at each and every lamp in circuit must be maintained during the hours fixed for the lamps to be burning.

4. The contractors must maintain at their own expense an efficient system of patrol for inspecting the lamps during the hours they are in use, so that any lamp which fail to burn properly shall be promptly reported and put in order or immediately replaced, and for this inspection a sufficient number of men shall be employed to enable each to be examined at least three times each night.

5. For the purpose of making tests of currents and examining lamps, apparatus and appliances it is understood and agreed that at any time the city, by such person or persons as the General Superintendent of Lamps may authorize, shall have access to all lamps, apparatus and appliances in the city, and to the plants of the contractors, and shall have the privilege at any and all times of attaching in any of the circuits at such point or points as may be selected by the General Superintendent of Lamps such measuring instruments as he may desire to use, and maintain the same so long as he may judge it advisable;

and any lamp or light not up to the standard, as required by the specifications, will be considered as not burning.

6. Lamps must be provided with the best quality of clear glass globes, which are to be kept clean at all times at the expense of the contractors.

7. Lamps not satisfactory to the General Superintendent of Lamps shall be changed, and satisfactory ones substituted within twelve hours after notice that change is desirable.

8. The General Superintendent of Lamps must be advised within five days from the date that the lighting commences under the contract of the K W. capacity of the several dynamos in use and of the number and locations of the lamps on each circuit, and of all changes as soon as they are made.

9. No dynamo shall have in circuit more than two lamps per K. W.; and no service whatever, unless approved by the General Superintendent of Lamps, other than that contracted for by the city, shall be supplied from the circuits giving current to the city lamps.

10. The contractor must furnish, erect and maintain all poles, wiring lamps, connections and fixtures, including arms or brackets, if such are desired.

11. Lamps must burn from sunset to half an hour before sunrise on every day of the year while the contract is in force.

12. Changes of locations of lamps or poles must be made by the contractors immediately upon notice from the General Superintendent of Lamps, and the actual cost only of the labor in making the change to be charged to the city.

13. Lamps may be discontinued at any time on order from the General Superintendent of Lamps, with the approval of the Mayor.

14. Any contractor under these specifications shall within ninety days after the annulment of this contract remove any and all lamps, lamp-posts and fixtures used, erected and maintained by him for the city lighting, if so required by the Mayor.

15. Each bidder must enclose with his bid a certified check for five hundred ($500) dollars, made payable to the Mayor and City Council of Baltimore; the check of the successful bidder will not be returned until he has given a satisfactory bond for the proper carrying out of the contract, otherwise said check will be forfeited to the City by any bidders to whom a contract is offered and who fails to give a satisfactory bond.

16. The contractor shall each day before 12 o'clock noon make a written report to the General Superintendent of Lamps stating whether any lamps were out on the preceding night, the number of lamps that were out, if any, the length of time each lamp was out, and the cause thereof, and if the said lamps or any of them were out by reason of the failure of current to supply said lamps, the said report shall further contain the cause of such failure.

17. No change of current from one city circuit to another city circuit will be permitted during the hours the lights should be burning.

18. Poles for street lamps and circuits and the means of suspension must not be dangerous, unsightly, or such as to incommode the adjoining property unneccessarily, but be erected in a manner satisfactory to the General Superintendent of Lamps; his approval, however, shall not relieve the contractor of responsibility in case of accident or injury to persons or property.

19. All safety appliances known in the best electrical practice shall be used throughout the system authorized directly or indirectly by this contract.

20. All generators, lines, lamps and other apparatus used for lighting shall be kept free from grounds, *i. e.*, both sides of all circuits must be kept well insulated from the earth.

21. Bond of double the contract price is required.

22. Nothing in these specifications shall be taken or construed as prohibiting or preventing the Mayor and City Council, the Public Park Commissioners, or any other public

board or commission appointed by the Mayor and confirmed by the Council, from contracting or establishing, using or maintaining their own dynamos and other plant for lighting of any park or building under the control or supervision of the said Mayor and City Council, Board of Public Park Commissioners, or other public board or commission.

23. In case of any suits against the City for damages caused by the electric current, or want of it, at points where the lamps should be burning or where wires are placed for the purpose of supplying said lamps, the contractors agree to defend all such suits at their expense, and pay all damages for which the City may be liable by reason of such suits.

24. The contract under these specifications will be for four years.

25. Failure on the part of the contractor to comply with any conditions of these specifications gives the City the right to annul the contract upon giving sixty days' notice in writing by the Mayor of its election to do so.

26. Any lamp out for half an hour and burning for the rest of the night half pay only to be charged. If out an hour no pay.

Parks and City buildings which are now contracting for their own lights are not considered as forming a part of this contract.

Many courts and small alleys could be better lighted with electric lamps than with the present gasoline lamps, but the cost of the electric lamp exceeds that of the gasoline lamp by approximately $103.00 per annum. The erecting of electric lamps in such places referred to will not displace more than one gasoline lamp, consequently the electric lighting at the present contract price compels the City to continue the use of gasoline lamps; perhaps a contract could be made whereby a less candle-power lamp could be supplied these courts and alleys at much reduced rates than the City now pays for the nominal 2000 candle-power lamp.

The officers of this department have access at all times to the power stations of the contractors, where the amount of

current being supplied the City lamps can be recorded from the meters connected with the various machines supplying the City circuits.

The department depends upon the police to report daily all lamps not burning continously on the preceding night, which reports are used to verify the reports of the contractors.

The Police Department has assisted me very materially by reporting any lamps that were temporarily out, for which I herewith express my thanks.

Gas Lamps.

There is no contract with the Gas Company.

I find that the City has been compelled to pay the same price for gas as the private consumer since 1885. The present price is one dollar and twenty-five ($1.25) cents per thousand feet.

As stated in the last annual report of this department that owing to the city being such a large consumer, and the expense of distribution so small, it seems that the company should not hesitate to supply the *public lamps* with gas at 25 per cent less than charged the private consumer.

I would suggest that if a contract is made with the gas company that the price per lamp, burning according to schedule to be arranged by the General Superintendent of Lamps, instead of using a few gas meters scattered throughout the city as at present, as it is well known the mechanism of the gas meter is affected by the changes of temparature, thus causing a variation in the registered consumption from the actual consumption, necessitating a settlement by equity instead of a fixed charge.

I respectfully recommend that an ordinance be passed authorizing the General Superintendent of Lamps, etc, to order the Gas Company to lay mains, as there are times when it is desired to erect gas lamps, but there is no authority to order gas mains laid.

All the gas lamps have been equipped with the "Improved Welsbach Burners and Fixtures;" a contract was made with the "Welsbach Street Lighting Company of America" to supply their improved burners and fixtures to the gas lamps, at the price of twelve ($12.00) dollars per lamp per annum; the company supplies all the fixtures connected with the burners and renew the same as often as needed, as well as replace all broken globes. The contractors maintain a system of patrol of the whole city, thus enabling them to see the lamps each night, thereby keeping them in proper burning condition.

Specifications which are a part of the contract.

SPECIFICATIONS.

Burners—The burners to be so constructed that they can be used in the present lamp (the Miner Globe Lamp) without altering the same, they must be supplied with an adjustable gas regulator, and guaranteed not to consume more than three (3) cubic feet of gas per hour; and, furthermore, they must give sixty (60) candle-power light at all times.

Fine—Each and every burner found not giving the light required as above will subject the contractors to a fine of twenty-five (25) cents per lamp per night.

Time of Burning—The lamps will be lighted each evening and extinguished each morning by the city lamp-lighters upon schedule furnished by the General Superintendent of Lamps, etc., and no burner will be accepted that burns the gas continuously throughout the day.

Attachments—Each lamp must be supplied with a deflector of strong and substantial material, to be placed in the top of the lamp, and the bottoms of the globes to be closed with an iron casting, so arranged as to allow the adjustment of the chimneys, also permit of the lighting of the lamps from the bottom of the lamp.

Chimneys—The chimneys on the fixtures of the burners to be adjusted so as to preserve the mantel when the globes are

removed for cleaning, said chimneys not to obstruct the illumination; chimneys of glass or mica will not be accepted.

Mantels—Renewal of mantels must be promptly made when necessary, and be of such quality as to give an intensity of sixty (60) candle-power.

Globes—All globes that become broken during the contract must be replaced by the contractors, and be of first quality clear glass.

Repairs—All repairs to burners and fixtures must be attended to promptly, so that the lamp will burn properly during the hours scheduled, and the contractors shall for this purpose employ sufficient force of men that each lamp will be seen each night after being lighted.

Superintendent—A superintendent must be employed by the contractors, whose duty will be to see that the terms of these specifications are complied with; said superintendent to be under the jurisdiction and to report to the General Superintendent of Lamps, etc., for instructions as often as required.

Tools and Supplies—All tools necessary for the use of the lamplighters for the efficient execution of the contract to be furnished them by the contractors without additional cost. It is understood and agreed that the burners and equipment furnished by the party of the first part, with the exception of the globes, are to be and remain the property of the said party of the first part, at the expiration of this contract or any continuance thereof.

Replacing old Burners and Stops—The contractors will be required, at the expiration of the contract, to replace all the burners and the stops removed from the lamps in the condition they were when entering into the contract, without any cost whatever.

Price—Proposals must state the price per lamp per year, with entire service furnished as herein specified, (it being understood that the city supplies the gas, light, extinguishes and cleans the globes).

The contract expires March 1st, 1901.

While the total cost of the maintenance of the lamps supplied with the Welsbach Burner does not exceed that with the Lava tip, the city gets the benefit of greater illumination, as the candle-power of each lamp is increased more than one hundred and thirty per cent.

Favorable letters of comment have been received from many of our most prominent citizens in reference to the improvement of the gas lighting service since the introduction of these burners.

Gasoline Lamps.

The contract for supplying and filling the fluid-burning lamps will expire June 30, 1900. Messrs. Samuel H. Randall, Jr., & Co. were awared both contracts. The price paid for work in the city proper is fourteen dollars and thirteen ($14.13) cents per lamp per year, and in the Annex twelve dollars and ninety-seven ($12.97) cents per lamp per year.

Specifications which are a part of the contracts:

Each bidder must enclose with his bid a certified check for five hundred ($500) dollars. And the bidder who has had the contract awarded to him, and fails to promptly execute the required contract and bond, shall forfeit said check.

The checks of the unsuccessful bidders shall be returned to them after opening the bids and awarding the contract to the successful bidder. The gasoline must be of the gravity of 72° to 75° and free from water, gum, glue or other impurities, and placed in the lamps through a sieve or strainer in the filler.

The lamps must be filled every other day throughout the year, and oftener when required. It being understood that all lamps in the city must be filled on Saturdays.

Any lamp that won't burn or that goes out, or burns dim for any part of a night, for want of gasoline, or because of any impurities in said gasoline, or if not filled according to the preceding section, will subject the contractor to a fine of twenty-five (25) cents per lamp per night for each lamp

requiring attention, as above, which fine will be deducted from the amount that would be otherwise due, and the report of the condition of a lamp by the superintendent of the district in which the lamp is located, shall be accepted as final.

Bond must be given double the amount of contract price.

To facilitate the work of the contractor a report will be given, if desired, each morning (Sundays and holidays excepted) at the office of the General Superintendent of Lamps in the City Hall Annex, of all lamps then known to require attention.

The number of lamps may be increased or diminished at the pleasure of the city.

Gasoline lamps are only in use where there are no gas mains. As soon as mains are laid gas lamps are then erected in their places. There is more or less trouble in windy weather to keep the gasoline lamps burning, consequently the change is made to gas as soon as possible, thereby improving the service.

Street Signs.

As directed by Article 48, Section 97, Code of 1893, which requires the General Superintendent of Lamps, etc., to place the names of the streets in position, I have endeavored to comply with the same, but as there is no one charged officially to compile and keep a record of the names of the streets, it is impossible at times to properly determine the legal names. Therefore I would reccommend an ordinance be passed renaming all the streets upon some system, and that no street thereafter opened by any one whomsoever be named without the written authority of the officer placed in charge of keeping the records of the same. I believe that the Chief Engineer of the Topographical Survey could attend to this very important matter, and that it would afford his department great assistance with the work now under his control.

Condition of Lamps.

During the year all the gas lamps have been thoroughly overhauled and painted, aluminum upon the lanterns and bronze green upon the posts, making a neat appearance and preserving them from rust and decay. All the gasoline lanterns and posts should be overhauled, repaired, and painted the coming year.

Discontinued Posts.

There are quite a number of unused gas lamp-posts remaining in their old positions. These posts are unsightly, and at new locations where lamps are requested and found needed these posts are erected instead of purchasing new ones.

Superintendents and Lamplighters.

There are six (6) superintendents and one hundred and forty-nine (149) lamplighters.

The duties of the superintendents require them to keep a general supervision over the work of the lamplighters, to see that the lamps in their respective districts are lighted and extinguished on schedule time; that the lighters report their lamps and street signs promptly for necessary repairs, and that the lamps are kept clean at all times. The superintendents' districts are so large that it is almost impossible for either of them to see all the lighters at work during the time of lighting or extinguishing; therefore I determined upon and adopted a badge to be worn conspicuous by the employees of this department at all times when on duty, and requested the Police Department to recognize them as authority under the law to attend to the lamps. All parties tampering with the lamps not wearing the badge adopted by the department will be subjected to arrest. Since adopting the badge I have had very little trouble in this respect.

Rules to Govern The Lamplighters of Baltimore City.

1. A card will be furnished by the first of each month, giving the time to commence lighting and extinguishing the lamps, and if a lamplighter for any cause is *unable personally*

to light or extinguish his lamps at the hours named on the card, he must immediately report the fact to his superintendent, as it is unlawful for any person, other than those legally authorized, to light or extinguish any of the public lamps of the City of Baltimore.

2. If a lighter, when lighting, finds that a lamp will not burn properly, he will leave such lamp and finish his route. He must then return to the unlighted lamps and endeavor to get them in proper burning order.

3. Lamplighters are required to keep the gasoline burners and burner-plates clean, the needle in working order, and the gas passage pricked out with the regulation screw, so that the flame may burn the proper size. Gasoline lamps must not be left until the burners are thoroughly heated.

4. Lamplighters are required to report any defects in the burning, or when any of the lamps or street signs on the lamps or sides of houses are out of order before eight (8) o'clock every morning.

5. The *Lamps* and *Street Signs* on the lamps must be kept clean at all times.

6. The lamps must be lighted and extinguished strictly in accordance with the time on the card. All lamps *must* be lighted within one hour from the time of beginning.

7. Lamplighters must, before removing the globes when cleaning, see that the shield is pulled down and, after replacing the globe, to raise the shield to the full height of the mantle.

8. Lamplighters are required to wear their Badges, when on duty, on the outside of their coats, so they will be readily seen.

9. Lamplighters must appear in person to receive their pay and sign the pay-roll.

Failure to observe the above rules will be considered sufficient cause for suspension.

Gas Meters.

The Department has inspected twelve thousand nine hundred and twenty-one (12,921) gas meters during the year.

The consumer of gas, it appears, does not know that upon payment in advance to the Inspector the specified fee of one ($1) dollar the Inspector will send to the premises, remove the meter to the office, inspect the same, and if it is found registering more than two (2) per cent. against the consumer his dollar is refunded, and the gas company will also refund to him accordingly the amount of overcharge on the last four (4) months' bills preceding the test, at the same time the gas company is required to pay the City the amount of one ($1) dollar refunded the consumer for the work of removing said meter from the premises, testing, etc.

Cost of Lighting the City.

The cost of lighting the city proper for the year 1899, was as follows:

Office salaries	$ 3,000 00
Electric lamps	168,057 83
Gas lamps	116,518 51
Gasoline lamps	4,491 53
Incidentals	370 98
Superintendents and lamplighter's salaries	48,178 00
	$340,616 85

The cost of lighting the City Annex for the year 1899, was as follows:

Electric lamps	$ 7,041 12
Gas lamps	21,228 82
Gasoline lamps	8,879 72
Superintendents and lamplighters' salaries	17,990 86
	$55,140 86

Total appropriations	$409,200 00
Total expenditures	395,757 37
Balance	$13,442 63

A summary statement herewith attached shows the department maintained during the year 1899, one hundred and eighty-nine (189) gas, thirty-six (36) electric and fifty-nine gasoline lamps more than were in operation in 1897, and has expended ten thousand, nine hundred and nineteen dollars and fifty cents ($10,919.50) less.

Although having improved the illumination of the streets by the adoption of the very latest improved burners, and extending the service, which is necessary by the opening or extending of streets, the cost of maintenance has been most satisfactorily reduced. For instance:

In 1897 there were	8,424	lamps in service,	costing	$406,676	87
" 1898 "	8,676	" "	"	399,550	19
" 1899 "	8,708	" "	"	395,757	37

I desire to express my thanks to the employes of the department for the cheerful manner in which they have carried out the orders or requests made of them from time to time.

Respectfully submitted,

WM. H. SWINDELL,

General Superintendent of Lamps, Etc.

TABLES.

City Proper.	1897				1898				1899			
	No. of Lamps.	Appropriated.	Expended.	Balance.	No. of Lamps.	Appropriated.	Expended.	Balance.	No. of Lamps.	Appropriated.	Expended.	Balance.
Office salaries		$ 3,000 00	$ 3,000 00			$ 3,000 00	$ 3,000 00			$ 3,000 00	$ 3,000 00	
Gas lamps	5,151	132,612 50	125,593 54	7,018 96	5,291	132,000 00	120,833 60	11,166 40	5,272	125,000 00	116,518 51	8,481 49
Electric lamps	1,304	166,350 00	166,175 88	174 82	1,317	168,000 00	167,300 05	699 95	1,325	170,000 00	168,057 83	1,942 17
Gasoline lamps	331	5,804 00	5,017 64	786 36	334	5,500 00	4,546 98	953 02	327	5,000 00	4,491 53	508 47
Sup. and lampligh's' sal.		48,328 00	48,288 86	39 14		48,178 00	48,178 00			48,200 00	48,178 00	22 00
Incidentals										500 00	370 98	129 02
Annex.												
Gas lamps	892	22,735 00	21,484 52	1,250 48	944	24,000 00	22,954 42	1,045 58	960	23,000 00	21,228 82	1,771 18
Electric lamps	51	6,340 00	6,245 04	94 96	52	7,000 00	6,555 50	444 50	66	7,500 00	7,041 12	458 88
Gasoline lamps	695	8,796 00	8,732 24	62 76	738	9,500 00	8,450 22	1,049 78	758	9,000 00	8,879 72	120 28
Sup. and lampligh's' sal.		17,842 00	17,138 85	703 15		18,304 00	17,731 42	572 58		18,000 00	17,990 86	9 14
Totals	8,424	$411,807 50	$406,676 87	$10,130 63	8,676	$415,482 00	$399,550 19	$15,931 81	8,708	$409,200 00	$395,757 37	$13,442 63

TABLE A.

Exhibits the number and size of meters inspected, also those rejected as incorrect.

SIZE AND NUMBER OF METERS INSPECTED AND SEALED.

Size of meters...	2-lt.,	3-lt.,	5-lt-,	10-lt.,	20-lt.,	30-lt.,	45-lt.
No. of meters...	32.	226.	11,872.	322.	153.	45.	43.
Size of meters...	60 lt.,	80-lt.,	100-lt.,	150-lt.,	200-lt.		
No. of meters...	23.	5.	19.	2.	3.		

SIZE AND NUMBER OF METERS REJECTED AS INCORRECT.

Size of meters...	3-lt.,	5-lt.,	10-lt.,	45-lt.,	60-lt.,	100-lt.
No. of meters...	8.	147.	15.	1.	1.	1.

In addition to the above, there were twenty-four lamp, market and engine-house meters taken out, twenty-one of which were incorrect or otherwise out of order.

TABLE B.

Shows the amount received by the department and paid to the Register on warrants from the Comptroller.

Inspecting gas meters	$3,181 50
Recovered damages to lamps	134 52
Old material sold	69 65
	$3,385 67

TABLE C.

Exhibits the amount of the appropriation, and the amount expended, with balance unexpended, for the electric light account.

Appropriation for electric lights	$170,000 00
Amount expended	168,057 83
Balance	$1,942 17

TABLE D—CITY PROPER.

Exhibits the amount of appropriation, and amount expended, with balance unexpended, for the gas account.

Appropriation for gas	$125,000 00
Amount expended	116,518 51
Balance	$8,481 49

TABLE E—CITY PROPER.

Exhibits the amount of appropriation, and amount expended, with balance unexpended for the gasoline account.

Appropriation for gasoline	$5,000 00
Amount expended	4,491 53
Balance	$508 47

TABLE F--ANNEX.

Exhibits the amount of appropriation, and amount expended, with balance unexpended for the electric light account.

Appropriation for electric lights	$7,500 00
Amount expended	7,041 12
Balance	$458 88

TABLE G--ANNEX.

Exhibits the amount of appropriation, and amount expended, with balance unexpended, for the gasoline account.

Appropriation for gasoline	$9,000 00
Amount expended	8,879 72
Balance	$120 28

TABLE H—ANNEX.

Exhibits the amount of appropriation and amount expended, with balance unexpended, for the gas account.

Appropriation for gas	$23,000 00
Amount expended	21,228 82
Balance	$1,771 18

TABLE I—CITY PROPER.

Exhibits the amount of appropriation for office salaries and amount expended.

Appropriation for office salaries	$3,000 00
Amount expended,	3,000 00

TABLE J—CITY PROPER.

Exhibits the amount of appropriation and amount expended, with balance unexpended, of the Superintendents and lamplighters' salaries.

Appropriation for superintendents and lamplighters' salaries	$48,200 00
Amount expended	48,178 00
Balance	$22 00

TABLE K—ANNEX.

Exhibits the amount of appropriation and amount expended, with balance unexpended, of the Superintendent and lamplighters' salaries.

Appropriation for Superintendent and lamplighters' salaries	$18,000 00
Amount expended	17,990 86
Balance	$9 14

TABLE L—City Proper.

Exhibits the amount of appropriation and amount expended, with balance unexpended, of the incidental account.

Appropriation for incidentals	$500 00
Expended	370 98
Balance	$129 02

TABLE M.

Shows the amounts required for the year ending December, 31st, 1900.

The appropriation for electric lights will cover the cost of electric lights on the streets, in squares, markets, on bridges, and in the clock at No. 6 Engine House, and the inspection of the lamps, as well as for apparatus and repairs to same	$180,760 75
The appropriation for gas will cover the cost of gas for street lamps, squares, markets, bridges, Washington monument, erecting and removing lamps, straightening posts, renewal of services, new lanterns, lamp-posts, street signs, rental of Welshbach burners and fixtures, and all necessary material and labor for repairing the lamps and keeping them in repair, and for additions and alterations to gas pipes and fixtures in public buildings,	148,740 28
The appropriation for gasoline will cover the cost of gasoline and filling the fluid-burning lamps, new posts, lanterns, burners, valves, lamp wick, glass and all necessary material and labor for repairing and keeping the gasoline lamps in good condition	19,355 00
The appropriation for salaries	71,334 00
Incidentals	1,250 00

ANNUAL REPORT

—OF THE—

HARBOR BOARD

—TO THE—

Mayor and City Council of Baltimore

—FOR THE—

FISCAL YEAR ENDED DECEMBER 31, 1899.

BALTIMORE:
WM. J. C. DULANY CO., CITY PRINTERS.

1900.

Harbor Board of Baltimore.

JANUARY, 1900.

THOMAS G. HAYES, Mayor,
President ex-officio.

CLARENCE SHRIVER,
Secretary.

JAMES B. ANDREWS.

GEORGE R. HEFFNER.

H. M. HARRIMAN.

GEORGE W. MOORE.

JOHN R. SHERWOOD.

N. H. HUTTON, *Engineer.*

S. L. RICHARDS, *Clerk.*

REPORT.

OFFICE OF THE HARBOR BOARD OF BALTIMORE,

BALTIMORE, January, 1900.

To the Honorable the Mayor and City Council of Baltimore:

GENTLEMEN: The undersigned committee, as authorized by the Harbor Board, has the honor to submit herewith the report of the Board as to operations conducted under its direction during the year ended December 31, 1899.

Appropriations for the work of this department for 1899 were:

For maintenance and improvement of Harbor, and maintenance of tug "Baltimore"		$25,000 00
For salaries and wages		29,290 00
For maintenance of ice-boats		6,000 00
For repairs of wharves		3,000 00
For new boiler and engine of tug "Baltimore"		6,000 00
For removal of ashes from tow-boats		400 00
For removal of floating matter (supplies)		50 00
For incidental expenses		400 00
There was also received from sale of old boiler of tug "Baltimore"		75 00
From sale of old grate bars of "Annapolis"		10 15
From Merchants and Miners' Transportation Company for expenses of "Latrobe" in aiding Steamship "D. H. Miller"		96 02
From Ætna Insurance Company	$115 30	
From British-American Insurance Company	76 86	
From St. Paul F. and M. Insurance Company, for damages to tug "Baltimore" in collision	115 29	
		307 45
Making total available		$70,628 62

The Board was enabled to effect a saving of $4,458.59 out of this sum, or unexpended balances of over six per cent. of the total appropriated and available. These balances, which reverted to the general funds of the city at the close of 1899, were divided among the various appropriations as follows:

Harbor	$2,231 38
Salaries and wages	764 01
Boiler and engine for tug "Baltimore"	690 41
Repairs of wharves	381 24
Removal of ashes	346 25
Removal of floating matter	39 12
Incidental expenses	6 18

The several divisions of public work, in charge of the Board, consist of:

1. Harbor maintenance and improvement, including maintenance and repair of tug "Baltimore."

2. Ice-boats, their maintenance and repair, and operation when required.

3. Wharves, including the construction and repair of all public wharves; the general supervision of all wharves and the enforcement of laws regulating the construction and condition of piers and bulk-heads, and the granting of permits to construct or extend piers and bulk-heads.

4. The removal of floating matter from the Harbor and docks.

5. The reception and disposal of ashes from tow-boats.

6. And as occasion may require, the removal of vessels sunken in the Harbor.

DREDGING.

Proposals for dredging during 1899 were opened by Board of Awards on February 8. Estimates of material to be dredged and removed to dumping ground in the Bay, two miles East of Craighill Channel, were:

145,000 cubic yards from channels and Harbor generally, including Middle Branch.

30,000 cubic yards from Back Basin.

60,000 cubic yards from head of Basin and docks in main Harbor.

15,000 cubic yards from docks in Middle Branch.

The bids per cubic yard were as follows:

Name of Bidder.	Channels and Harbor generally, including Middle Branch.	Back Basin.	Head of Basin and docks in Main Harbor.	Docks in Middle Branch.
Baltimore Dredging Co.....	9¼c.	11⅜c.	11½c.	11½c.
Sanford & Brooks Co.....	9¾c.	12c.	12½c.	12½c.
Virginia Dredging Co.....	11c.	13c.	14c.	13c.

The contract was awarded to the Baltimore Dredging Company, the lowest bidder. Work was begun on March 6 and completed on August 17, the total cost being $20,397.82. The amount of material dredged and removed was 197,475 cubic yards, as follows:

Channels in main Harbor:

Fort McHenry to Pier 32 (Locust Point side)	30,608 cub. yds.
Hamilton's Coal Pier to Shaw's Coal Pier (Locust Point side)	32,602 cub. yds.
U. S. L. House to Canton Elevator (Canton side)	30,237 cub. yds.
	93,447

Channels in Middle Branch:

Eutaw street to Howard street	2,356 cub. yds.
Eutaw street to Chatsworth's Run	1,522 cub. yds.
Bush street	3,252 cub. yds.
	7,130
Back Basin	39,024
Head of Basin	22,541

Docks in main Harbor:

Light street wharves	3,090	cub. yds.
Patterson's Dock	64	"
Long Dock	445	"
Smith's Dock	213	"
McComas' Dock	477	"
Frederick street Dock	334	"
Foot Commerce street	179	"
Foot Cross street	1,057	"
McClure's Dock	486	"
William street	430	"
N. C. Pier (Potomac street)	2,520	"
Foot Hull street	428	"
Foot Lancaster street	110	"
Foot Castle street	215	"
Foot Broadway	876	"
Foot Washington street	210	"
Harris' Creek	14,616	"
	25,750	

Docks in Middle Branch:

Bush street Dock	8,473	cub. yds.
Foot Howard street	300	"
Foot Eutaw street	810	"
	9,583	

For this total of 197,475 cubic yards, the contractor was paid $20,397.82, or at an average rate of 10⅓ cents per yard.

The work was distributed over the following areas:

Head of Basin	800,000	sq. ft.
Docks	125,000	"
Back Basin	160,000	"
Channels	950,000	"
	2,035,000	"

or nearly 47 acres; the area being equal to about 226,000 square yards, and the total excavations 197,475 cubic yards; the average depth of dredging was 0.873 yards, or about 2 feet, 7½ inches.

The Head of the Basin, from Light street to Long Dock, was dredged to 19 feet, most of the work being in hard bottom.

The docks in main Harbor were generally dredged to hard bottom, varying in depth from 12 to 17 feet.

The Back Basin (or City Dock) from Canton-avenue Bridge to main Basin, was dredged to 19 feet to provide a place of deposit for material brought down by Jones' Falls; the main Basin was dredged, where required, to maintain 16 feet depth. Docks in Middle Branch were dredged to 12 feet, except Bush street, which was partially dredged to 16 feet.

The head of the Basin at Eutaw and Howard streets was redredged, where necessary, to preserve 12 feet depth.

The channels to Bush-street and Bayard-street Docks were redredged, in part, to 14 and 17 feet, respectively.

It may well be stated here that Bush-street Dock cannot, at any reasonable expense, be maintained with a depth of 16 feet, unless the adjacent owners construct a water-tight bulk-head on the South side of the dock. All the sediment brought down from Gwynn's Falls, when in flood, now washes into this dock and the channel leading thereto.

SHIP CHANNELS.

Work in main ship channels was confined to the widening of the channels of 30 feet depth, to connect with the 30-foot channel of the National Government, ending off Fort McHenry and Lazaretto Light.

On the East (or Canton side) there were made: from Foley's Wharf to Elevator No. 1, one cut 45 by 2,600 feet, to 30 feet depth; one cut 200 by 1,000 feet, to 30 feet depth, from Baker-Whiteley's Pier 4 to Elevator No. 1, to permit heavy-draft vessels to haul out from piers and straighten down stream.

On the West side one cut was made from United States channel to Pier 32, of B. & O. R. R., being 100 by 2,600 feet, to 30 feet depth. Five cuts, each 40 feet wide, averaging 800 feet in length, were made off Fort McHenry, in hard bottom left from work of 1898.

From Hamilton's Coal Pier to Shaw's, Locust Point, the channel was widened from 150 feet to 250 feet, to make channel 27 feet deep, and nowhere less than 300 feet wide.

TUG "BALTIMORE."

Proposals for repairs to hull of tug "Baltimore" were opened by Board of Awards on August 16th, and the contract was awarded to the only bidder, the James Clark Co., at $1,050.

These repairs and betterments consisted of the reinforcement of frames amidship and aft; the addition of floors, or plate and angle iron ties, under boiler space, with angle iron keelsons on either side; the construction of an iron tank in the forepeak; the renewal of several plates at stern, the removal of fire pump from engine-room to forward hold, with connections for hose on forward deck, and sundry minor repairs to deck pump, rudder post, etc.

These repairs were completed; the new boiler and engine put in, all connections made, and after trial the boat was accepted during November, under contracts of December 7, 1898, and August 16, 1899.

This boat was in service during January and February, as an "ice breaker," and, as usual, did excellent service in relieving the commerce of the River and Harbor from obstruction by ice. Subsequently, and until the latter part of August, when it was turned over to James Clark Co., for placing new boiler, etc., it was engaged in aiding the general supervision of dredging, and the police of River and Harbor to secure compliance with ordinances relating to Harbor, Docks and Wharves.

SURVEY AND MAPS.

During August and September, a survey of dredged areas was made in Harbor and Middle Branch; the results were platted and are now on file in the Board's office.

A very accurate and complete survey of the Harbor, including all wharves, etc., was made by the United States Coast Survey in 1898. Advance sheets of this have been secured by the Board, and it advises that this survey be made the basis of a new edition of the map of the Harbor. The last edition (of 1887) is entirely exhausted, and the issuance of a new one is of great importance to the Harbor and commercial interests.

ICE-BOATS.

The "Latrobe" was engaged in preventing obstructions to commerce by ice, during a few days in January, and continuously from February 9th to 25th, including work in the Choptank, at Oxford and Cambridge, and at St. Michael's.

It was again in commission in March, to relieve Steamship "D. H. Miller," ashore near Seven Foot Knoll. In April (by ordinance of Mayor and City Council) it was used for an excursion by the Junior Order American Mechanics.

From June 8th until the end of August the boat was (by ordinance of Mayor and City Council) in the service of the Free Summer Excursion Society, for which twelve trips to Chesterwood were made, conveying 15,184 passengers.

The "Annapolis" was in commission for the purpose of preventing obstructions to commerce by ice from February 2d to 28th; in addition to the work in the Harbor, River and Bay, this boat broke up the ice in Chester River, Eastern Bay and Annapolis Harbor.

During this time, both boats relieved numerous vessels in distress, and ashore. This portion of the winter, as will be remembered, was very severe, and was especially a difficult one for the work of the ice-boats, owing to the heavy snows and strong winds.

The wheels of the "Annapolis," after the winter's work, were found to require repairs to arms and buckets.

Proposals for the specified repairs were opened by the Board of Awards on October 4th, as follows:

Jas. Clark Co	$650 00
Chas. Reeder & Sons	568 00
R. M. Spedden Co	500 00

The contract was awarded to the R. M. Spedden Co., which completed the work during November.

Both boats are in good condition and ready for service.

REPAIRS OF WHARVES.

Bids for rebuilding 300 linear feet of Bowly's Wharf were opened by the Board of Awards on March 29th, and the contract was awarded to the Sanford & Brooks Co. (the only bidder), at schedule rates for material and labor.

In order to avoid interference with the fruit trade, and at the earnest solicitation of the dealers, work under this contract was deferred until the autumn. Meanwhile, sundry small repairs to platform, ring bolts, etc., were made at a cost of $27.91.

The whole work was completed in November at a cost of $1,263.77.

Under the contract, a new row of front piles was driven to 24 feet below mean low water. A new cap log was put on in front, and rear caps were renewed where decayed. All new stringers and a new platform of 3-inch plank were laid, covering 300 feet, linear, of wharf; 250 feet of coping was reset in cement, and 35 feet of new coping laid on bulkhead wall.

South Street Wharf.—Repairs were made to platform, fender piles, guard logs and fast piles, at a cost of $100.79.

Calvert Street Wharf.—Platform partly renailed, at a cost of 82 cents.

Long Dock.—Repairs made to platform, guard logs, fast piles and iron straps, at cost of $50.97.

City Yard Wharf.—Platform renewed, $19.81.

Commerce Street Wharf.—Old piles cut off, and whole wharf rebuilt (about 1,590 square feet of floor), cost $493.09.

Patterson's Wharf.—Renewed 3 oak piles, 5 pine piles, 6 stringers, 5 cap logs, new chocks, flooring (750 square feet) and guard log; cost, $247.

Foot of Charles Street.—Platform repaired; cost, $33.79.

Quarantine Wharf.—Renewed 3 oak fender piles; 2 pine piles; new chocks; 100 feet linear, new cap log; guard log and break-water; repaired at cost of $348.74.

Permits to build, or extend, wharves were granted as follows:

Wm. Skinner & Sons Shipbuilding and Dry-Dock Company

to build a dry-dock; Carswell and Sons, to build a bulk-head in front of property on Southwest Branch; York River Steamboat Line, to extend pier at Light street 20 feet.

REMOVAL OF FLOATING MATTER.

Operations were commenced on June 12th, and continued until September 30. There were removed 1,982 cart loads of refuse matter, gathered by scoop nets from a scow, which was deposited in loads on adjacent wharves, from which they were conveyed by carts to the City garbage dump in the Back Basin. This refuse included 2,050 dogs, 1,623 cats, 7,511 rats, 5,753 pieces of meat, 1,314 bunches of fish, 293 bushels of crabs, 502 eels, 1,220 bushels of alewives, 2,249 chickens, 110 pigeons, 43 turtles, 167 ducks, 36 bushels of pineapples, 20 turkeys.

REMOVAL OF ASHES FROM TOW-BOATS.

There were received on the scow provided for this purpose 46,845 bushels of ashes, from 62 two-boats and 5 steamers. All but three (3) scow loads (about 3,500 bushels) were removed and safely disposed of by persons desiring to use the ashes, without cost to the City. The three (3) loads were placed behind bulkheads at a cost of $12 per load, or $36 for the three.

For all details of expenditures, etc., reference is respectfully requested to the annexed tables of "Receipts and Disbursements" during 1899.

ESTIMATES FOR 1900.

The following estimates for the requirements of the public service, under direction of the Board, for the year 1900, were submitted to the Board of Estimates:

Salaries, Engineer and Clerk	$5,100 00
Advertising and incidental expenses	500 00
Bulkhead, City Dock	6,000 00
Repairs and supervision of wharves	4,900 00
Removal of ashes and supervision of ash-scow	1,200 00
Removal of floating matter	2,500 00
Dredging Harbor, supervision, supplies and survey	33,900 00
Operation and maintenance of tug "Baltimore"	6,180 00
" " " " iceboats	23,280 00
Making a total of	$83,560 00

Appropriations for 1900, as fixed by the Mayor and City Council, are:

Salaries, Engineer and Clerk	$4,900 00
Dredging Harbor and operating tug "Baltimore"	35,080 00
Iceboats (maintenance and repairs)	15,000 00
Repairs of wharves and supervision	4,900 00
Removal of ashes and supervision of scow	1,200 00
" " floating matter	2,500 00
Incidental expenses	500 00
Making a total of	$64,080 00
Or less than this Board's Estimates	19,480 00

Respectfully Submitted,

Executive Committee of Harbor Board.

GEORGE R. HEFFNER,
G. W. MOORE.
CLARENCE SHRIVER,
Secretary.

TABLES.

TABULAR STATEMENT OF RECEIPTS AND DISBURSEMENTS OF THE HARBOR BOARD OF BALTIMORE DURING 1899.

HARBOR.

Year Ended December 31, 1899.		Dr.	Cr.
Appropriation:			
Ordinance No. 143, January 20, 1899			$25,000 00
Received from sale of old boiler of tug "Baltimore"			75 00
Received from sale of old grate bars of "Annapolis"			10 15
Expenditures:			
Baltimore Dredging Company	100,577 cubic yds. at 9¼c.	$20,397 82	
	39,024 " " " 11⅜c.		
	57,874 " " " 11½c.		
Advertising		35 09	
Supplies for dredging, etc		81 42	
*Maintenance tug "Baltimore"		2,339 44	
Fuel	$244 50		
Repairs	1,864 28		
Subsistence	12 59		
Steamboat supplies	113 31		
Towing	19 00		
Advertising	85 76		
Unexpended balance		2,231 38	
		$25,085 15	$25,085 15

*Salaries and wages of tug's crew (See "Salaries and Wages") amounted to $4,713.33, making total cost of operating this vessel, during 1899, $7,052.77, excluding $5,309.59 expended for new boiler and engine.

SALARIES AND WAGES.

Year Ended December 31, 1899.	Dr.	Cr.
Appropriation:		
Ordinance No. 143, January 20, 1899		$29,290 00
Expenditures:		
Engineer and Clerk	$4,800 00	
Regular crews, ice boats.	12,676 00	
"Annapolis," $5,790.50, "F. C. Latrobe," $6,885.50.		
Crew Tug "Baltimore"	4,713 33	
Supervision of wharves	900 00	
Supervision of ash-scow	800 00	
Supervision of dredging	1,955 25	
Removal of floating matter	2,440 91	
Survey of dredged areas	240 50	
Unexpended balance	764 01	
	$29,290 00	$29,290 00

MAINTENANCE OF ICE-BOATS.

Year Ended December 31, 1899.			Dr.	Cr.
Appropriation:				
Ordinance No. 143, January 20, 1899				$6,000 00
Received from Merchants and Miners' Transportation Co., for expenses of Ice-boat "Latrobe" in aiding Steamship "D. H. Miller"				96 02
Received for damages to tug "Baltimore" in collision, and credited to this account, from				
Ætna Insurance Co	$115 30			
British American Insurance Co	76 86			
St. Paul F. and M. Insurance Co	115 29			
				307 45
Expenditures:				
	Annapolis.	*Latrobe.*		
*Extra crews	$1,255 00	$823 75	$2,078 75	
Fuel	906 75	976 93	1,883 68	
Repairs	649 53	216 86	866 39	
Subsistence	394 90	391 15	786 05	
Steamboat supplies	363 70	251 51	615 21	
Towing	33 00	7 00	40 00	
Advertising	82 47	50 92	133 39	
	$3,685 35	$2,718 12	133 39	
			$6,403 47	$6,403 47

*Salaries and wages of regular crews (see "Salaries and Wages") amounted to $5,790.50 for "Annapolis," and $6,885.50 for "Latrobe," making total cost of operating these boats during 1899, $9,475.85 and $9,603.62, respectively.

NEW BOILER AND ENGINE FOR TUG "BALTIMORE."

Year Ended December 31, 1899.	Dr.	Cr.
Appropriation:		
Ordinance No. 143, January 20, 1899		$6,000 00
Expenditures:		
New boiler and engine	$5,150 00	
Additional repairs required	159 59	
Unexpended balance	690 41	
	$6,000 00	$6,000 00

REPAIRS OF WHARVES.

Year Ended December 31, 1899.		Dr.	Cr.
Appropriation:			
Ordinance No. 143, January 20, 1899			$3,000 00
*Expenditures:			
Advertising		$32 07	
Repairing wharves		2,586 69	
Bowly's Wharf	$1,291 68		
Long Dock	50 97		
City Yard	19 81		
Foot South street	100 79		
Foot Calvert street	82		
Foot Charles street	33 79		
Foot Commerce street	493 09		
Foot Patterson street	247 00		
Quarantine Wharf	348 74		
Unexpended balance		381 24	
		$3,000 00	$3,000 00

*For statement of amount expended for supervision on this account see "Salaries and Wages."

REMOVAL OF FLOATING MATTER.

Year Ended December 31, 1899.	Dr.	Cr.
Appropriation:		
Ordinance No. 143, January 20, 1899		$50 00
*Expenditures:		
Supplies	$10 88	
Unexpended balance	39 12	
	$50 00	$50 00

*For statement of amount expended for wages on this account, see "Salaries and Wages."

REMOVAL OF ASHES FROM TOW-BOATS.

Year Ended December 31, 1899.	Dr.	Cr.
Appropriation:		
Ordinance No. 143, January 20, 1899		$400 00
*Expenditures:		
Unloading ash-scow	$36 00	
Supplies	17 75	
Unexpended balance	346 25	
	$400 00	$400 00

*For statement of amount expended for supervision on this account, see "Salaries and Wages."

INCIDENTAL EXPENSES.

Year Ended December 31, 1899.	Dr.	Cr.
Appropriation:		
Ordinance No. 143, January 20, 1899		$400 00
Expenditures:		
Advertising, printing, telephone service, etc.	$393 82	
Unexpended balance	6 18	
	$400 00	$400 00

Respectfully Submitted,

S. L. RICHARDS, *Clerk.*

Approved:

N. H. HUTTON, *Engineer.*

ANNUAL REPORT

—— OF THE ——

HEALTH DEPARTMENT

—— TO THE ——

Mayor and City Council of Baltimore

—— FOR THE ——

FISCAL YEAR ENDED DECEMBER 31, 1899.

BALTIMORE:
WM. J. C. DULANY CO., PUBLIC PRINTERS.

1900

OFFICERS AND EMPLOYEES OF THE BOARD OF HEALTH

—OF THE—

City and Port of Baltimore for the Year Ending December 31, 1899.

HON. THOMAS G. HAYES, MAYOR.

C. HAMPSON JONES, M.D.,
President, Commissioner of Health.

JOHN TYLER SMITH, M.D.,
Assistant Commissioner of Health.

ALBERT K. HADEL, M.D.,
Secretary of Board of Health.

ARTHUR D. THOMPSON,
Assistant Secretary of Board of Health.

JOHN RUHRÄH, M.D.,
Resident Physician of the Quarantine Hospital of Port of Baltimore.

MELVIN ROSENTHAL, M.D.,
Assistant Physician of the Quarantine Hospital of Port of Baltimore.

GUSTAV W. LEHMAN, PH.D., *Chemist.*

WM. ROYAL STOKES, M.D., *Bacteriologist.*

NICHOLAS G. KEIRLE, M.D.. *Medical Examiner.*

ALBERTUS COTTON, M.D., *Assistant Medical Examiner.*

JOSEPH C. MITCHELL, *Inspector of Plumbing.*

GEORGE W. PILSON, *Inspector of Drains.*

THOMAS E. WILLIAMS, *Permit Clerk.*

EVERETT Y. SORDEN, *Nuisance Clerk.*

WILLIAM C. RATH, *Registrar's Clerk.*

HARRY F. PRICHARD, *Recorder of Births.*

J. R. WETHERILL, *Ass't Permit and Ass't Registrar's Clerk.*

SANITARY INSPECTORS.

J. F. HEMPEL, M.D.,
C. M. DODSON, M.D.,
H. H. HAYDEN, M.D.,
THOMAS T. DAWSON,
S. T. MOWERS, M.D.,
W. G. TOWNSEND, M.D.

JOHN C. EICHNER, *Inspector of Cow Stables.*

FRANK L. TUTTLE AND THOMAS J. BOROM, *Inspectors of Milk.*

T. EUGENE CARMICHAEL, *Inspector of Meats, Vegetables, Fruits, etc.*

FREDERICK GREINEISEN, *Inspector of Bakeries.*

EMORY M. STEVENSON, *Superintendent of Public Cemeteries.*

JOHN DECKER AND HENRY C. BRANNING,
Drivers of Funeral Wagons.

WILLIAM H. HACKMAN, *Keeper of the Morgue.*

THOS. H. WILEY, *Detective.*

THOMAS JOHNSON, *Watchman of Dumps.*

ALBERT E. MUSHAKE, *Messenger.*

GEO. W. PARLETT, CHAS. E. AMES, JOSEPH KELLY, *Disinfectors.*

SAMUEL H. OLER, *Maker of Disinfectants.*

CITY ANNEX—SANITARY INSPECTORS.

LOUIS F. FREY, M.D.,
LOUIS H. GUNDRY, M.D.
GEO. H. EVERHART, M.D.,
JOHN E. RITTENHOUSE.

VACCINE PHYSICIANS.

First Ward:
CHARLES S. NEER, 619 E. Patterson Park avenue.

Second Ward:
GUSTAV GOLDMAN, 2005 Eastern avenue.

Third Ward:
GUSTAV. C. THIEME, 128 S. Broadway.

Fourth Ward:
MOSES SAVAGE, 6 S. Exeter street.

Fifth Ward:
W. CLYDE BURNS, 1126 E. Fayette street.

Sixth Ward:
SAM'L T. ROEDER, 1904 E. Fayette street.

Seventh Ward:
GEORGE V. MITCHELL, 913 N. Broadway.

Eighth Ward:
HARVEY G. BECK, 700 E. Chase street.

Ninth Ward:
CHARLES W. HARTWIG, 111 W. Saratoga street.

Tenth Ward:
ROB'T J. MURRAY, 510 N. Fremont street.

Eleventh Ward:
E. LAMBERT YOUREX, 1230 Druid Hill avenue.

Twelfth Ward:
E. C. BUBERT, 2025 Druid Hill avenue.

Thirteenth Ward:
CHAS. W. McELFRESH, 834 W. Lombard street.

Fourteenth Ward:
JOHN G. JEFFERS, 1143 W. Franklin street.

Fifteenth Ward:
CHAS. W. PFEFFERS, 48 E. Montgomery street.

Sixteenth Ward:
JOSEPH HART, 1900 W. Fayette street.

Seventeenth Ward:
C. P. STRAUS, 1606 Light street.

Eighteenth Ward:
HARRY E. KNIPP, 523 Scott street.

Nineteenth Ward:
C. C. RICHARDSON, 1616 Edmondson avenue.

Twentieth Ward:
GEO. C. SHANNON, 1442 Presstmann street.

Twenty-first Ward:
J. BURCH JOYCE, 2526 W. Baltimore street.

Twenty-second Ward:
W. S. CARSWELL, N. E. cor. Charles street and Huntingdon avenue.

REPORT

—— OF THE ——

COMMISSIONER OF HEALTH.

REPORT.

HEALTH DEPARTMENT, CITY HALL ANNEX,
BALTIMORE, January 2, 1900.

To the Honorable the Mayor and City Council of Baltimore:

GENTLEMEN—In accordance with the requirements of law, I hereby submit the report of the Health Department for the year ending December 31st, 1899.

A careful comparison of the reports of the several sections of our Department will show an increase of work as compared with 1898. This is the result, I believe, of the better organization of the Department, and the enthusiastic attention given by the health officers to their respective departments.

The health of the city has been good, when compared with former years, but it is not all that it should be. The death rate was 18.76 per thousand of the whole population—white and colored—compared with 19.19 per thousand in 1898, on same basis of calculation, viz., a population of 541,000. The The death rate per thousand for white population was 16.76, for colored 30.61. If we deduct the non-residents who died in the city during the year, the death rate is reduced to a lower figure. There has been no great danger to the citizens due to infectious diseases, except diphtheria, which has been lessened by the persistent use of diphtheria antitoxin, both for curative and immunizing purposes.

TUBERCULOSIS.

This disease invades the body in many ways, producing death often without primarily involving the lungs; but tuberculosis of the lungs, or ordinary consumption, is by far the commonest form. This year it caused 974 deaths.

It is unfortunate that we become callous to those things that are constantly with us, because it is so difficult to arouse

the people and convince them that the conditions under which we have been living, and under which our fathers lived and died, are such that the investigations of late years have shown can be changed, and the fearful harvest by "the white death" reduced, if not entirely prevented, by paying attention to some few hygienic measures that would gradually demonstrate their value. Consumption of the lungs has for years been the cause of a greater number of deaths than any other disease. This disease is contracted, and not inherited, except, of course, in a few instances, when the victims die young. The cause of tuberculosis is the germ discovered by Koch, and without the introduction of this germ into the system the disease will not develop.

It follows that if we kill the germs, check their development, or prevent any entering the system, that the disease must decrease. While we know this, yet it is difficult to carry out measures of prevention, because they must be continued for so long a time. There are many things that a health department cannot do, because it encroaches too closely upon the family circle and the domain of the practicing physician; but there are hygienic measures that the department can suggest and the city carry out.

First of all, as to our

PUBLIC SCHOOLS.

It is conceded by all that the period of life known as the "school age" is not only one of the most mobile, as to the moral system, but also to the physical system. Now we do not contend that tuberculosis of the lungs is sure to develop, or the seeds of the disease be sown, during this period (although it is quite probable), but we do contend that the unsanitary condition of many of our school buildings lowers the vitality or resisting power of the children, and leaves them susceptible to the inroads of tuberculosis, even though their families have been free from the disease.

During the past year our Inspector of Buildings, Mr. E. J. Dowell, recognizing the unsanitary condition of many of our

school buildings, endeavored as much as lay in his power to remedy the evil, by introducing the Latrene system of closets. This was a step in the right direction, but only a step. If any of our citizens should be interested in the subject, let them go into almost any of our schools, after they have been in session for one hour, and if it be on a cold day, when all the windows are closed, he will discover the atmosphere of the school rooms is stale and close, and in many cases positively foul smelling. Ask the teachers, and many will tell you they frequently have to cause their classes to rise and open the windows, and to prevent the children from catching cold they are put through calisthenic exercises. These facts show the rooms are not properly ventilated.

In addition to this bad ventilation, however, is the overcrowding. The very finest of our schools are not perfect in this respect; but leaving perfection aside, as though it were unattainable, we are still confronted in some places with conditions that must be changed. For example, the average space given in the schools examined is about 175 cubic feet per child (it ought to be double, at least); but in one school we found only 74 cubic feet, and another 84 cubic feet; and finally the climax was reached at 44 cubic feet per child. Dr. J. C. Eichner, inspector, has obtained for me measurements, which I submit to your Honor under separate cover, and which you can examine for yourself.

I wish, before leaving the subject, to call your attention to the following: It is well-known that parents wish to keep their children in the schools where they began their studies; it is also known that certain teachers have achieved reputations of being excellent, and naturally they are sought after. As a result, we find that schools are attended by scholars who do not belong to that district, and sometimes we have the result as follows: One school is overcrowded and poorly ventilated, while a nearby school (within three or four squares) is well lighted, well ventilated, and four rooms vacant.

Secondly,

DWELLINGS AND SOIL.

Two factors are here found that undoubtedly wield a powerful influence upon our systems. They, in all probability, do not produce disease themselves, but certainly will intensify any disease that might develop.

The subject of dwellings presents difficulties that are not reached by our present laws; and it is impracticable to treat of the subject in this report.

As to the soil, much has been said, and more will be said; but so long as a public is unwilling to meet the conditions, that can be likened to an invading army laying tribute on every hand, just so long will we be without a sewerage system. The soil of our city is becoming more and more polluted, not only by privy matter, but also kitchen and bath drainage. For a time a soil will "take care" of the organic material that may be poured into it, but sooner or later it refuses to care for more. All of this results in the pollution of the atmosphere, and this in turn pollutes our system, resulting in lowered vitality, thus making us the easier victims to disease.

The third factor is

DUST.

Tuberculosis can enter our bodies through the skin, alimentary canal and air passages. Anything that impairs the health of any of these three entrances to the system will render invasion by disease the more likely. Now, in dust we have not only a deteriorating influence on the air passages by the mechanical effect of the particles of dust, but also there is a great possibility of the same particles of dust carrying disease germs. It, therefore, is incumbent upon the city either to remove the dirt regularly and thoroughly from our streets, but if that cannot be done, to prevent the dust rising by keeping the streets well watered.

TYPHOID FEVER.

During the year we had 153 deaths from this fever. It is considered by some authorities that the death rate from

typhoid fever is a fair index as to the hygienic condition of a city. I beg to differ from this opinion because it applies to the general hygienic conditions of a city, and not especially to the water supply. As nearly as it could the department located all the cases of this fever from August 1, 1899, to the end of the year. It can easily be seen by the map that the cases were well distributed all over the city, and not in any one locality. This argues that there must be some common cause for this condition, and by the process of exclusion we concluded it is the water.

We are fully aware that Baltimore has as good a water supply as the best; and, indeed, we will admit that it is better than any other city, but that doesn't argue that it could not be better, and that it will not be worse if we do not free the water from contamination. The sooner the city does this the better. The only method we know at present that will do the work is filtration.

DIPHTHERIA.

The department again has had a hard year with this disease (see Table V). We are glad to be able to say, however, that the average number of cases per month for the year is less than last year (1898). The disease is not by any means overcome, and if the physicians and citizens do not take care there will be trouble again in 1900.

In the absence of an hospital for infectious diseases the city has endeavored to assist in the fight, by giving 2,238,000 units of antitoxin, and disinfected about 1,700 rooms. The department urged the citizens to be constantly on the alert for sore throats, that they could notify their physicians in time, and antitoxin used early in the disease.

There were 1,783 cases reported, and of these 312 died, giving a date rate of 17.49 per cent. There is no necessity for so high a percentage. To be sure, it is much better than 45 per cent., which is the normal rate without antitoxin; but the carelessness of the people, and their insistence in

some cases in not permitting the use of the remedy until it is too late, makes it difficult to bring the percentage below 10 per cent., where it belongs.

In combatting this disease we found the method we adopted of inspecting schools in which several cases of diphtheria had developed, and making cultures of the throats of the children successful. We always discovered a number of infected throats that had not yet developed clinical diphtheria; these we sent home, with instructions to call their physicians to disinfect their throats. The result in every case was the immediate cessation of cases of diphtheria from that school for at least three or four weeks.

Dr. Charles B. Canby, inspector of throats, whose special work is to make cultures from the throats before the fumigaters do their work, submits a report that shows the value of such investigations. If children were allowed to return to school with germs of diphtheria in their throats other children would be exposed to contagion just as much as when the child had symptoms of the disease.

SMALL-POX.

This disease was general throughout the United States last year. Baltimore was seriously threatened from all sides, especially by the condition of affairs along the Chesapeake bay. Commencing about February 4th, 1899, and ending May 2, 1899, we had seventeen cases of this disease, and all but two could be traced to direct importation. The Board of Estimates voted the Department $3,000.00 for vaccine virus, and $1,500.00 for thirty extra vaccine physicians.

The free dispensaries assisted us very materially in vaccinating the people, and with their help we vaccinated about 60,000. It is estimated that during those four months there were from 100,000 to 125,000 persons vaccinated. We were fortunate in being able to use the glycerinated lymph instead of the old-style points, thus assuring freedom from pus germs and surer of giving good results. So sure were the results that where we could follow the vaccination to the end we

looked for 100 per cent. of "takes" in those people who never had been vaccinated. The safety of our city from small-pox depends upon vaccination ; cleanliness has little, if anything, to do with it.

We are fortunate in having a law that compels parents and guardians to have their children or wards vaccinated before they are one year old. We will be more fortunate and safer when this law can be enforced to the letter. The School Board assists us in this respect by requiring children to bring certificates of vaccination before entering a school; but evidently something more is required, because our vaccine physicians discovered last spring from 25 per cent. to 75 per cent. of the people not vaccinated.

The glycerinated vaccine virus is so free from deleterious effect, such as is produced by pus germs, that I am sure that the public in a few years will not have to be coaxed or forced into being vaccinated, but will cheerfully submit to the operation.

YELLOW FEVER.

I believe that it was greatly due to the care exercised by the United States Marine Hospital Service that Baltimore and other cities were not visited by this disease during the past year. Our quarantine officers did good work, but were not called upon to treat as many cases of sickness as it seemed probable they would in the beginning of the year. I believe that it is really only a matter of a few years when yellow fever will be a rare disease, even in Cuba.

One case arrived in the city from Santiago de Cuba on a vessel loaded with iron ore for Sparrow's Point. The vessel had a clean bill of health from Santiago de Cuba, and a history that no one had been allowed to go ashore at that port. The origin of the case is a mystery, but its genuineness is attested by the post mortem examination performed by Dr. N. G. Keirle, City Medical Examiner, assisted by Dr. William Royal Stokes, City Bacteriologist; Dr. William Barker, of

Johns Hopkins Hospital, and many other physicians interested in the work. The post mortem was held in the hospital at quarantine. A report is given by Dr. Ruhrah, quarantine officer, and Dr. Stokes, bacteriologist.

CLEANLINESS OF THE CITY.

The experience of the past two years convinces me that, in order to keep the city clean, a more liberal appropriation and improvements must be made in our Street-Cleaning Department for cleaning our streets, alleys, etc., as well as the removal of garbage and ashes.

The people do not recognize the difference between public and private propery when it is a question of cleaning the streets and alleys. This common view of the subject suggests to one that perhaps it would be better to place all alleys and streets from three (3) feet wide up under the care of the Street-Cleaning Department, giving it, of course, commensurate increase of force and appropriation. Either this must be done or else we, in some way, must make the patrolman responsible for the cleanliness of his beat, and give him the power to request the tenant to remove the filth immediately.

Our present method is entirely too cumbersome, and days are lost in getting an alley cleaned, and then are never kept clean. Furthermore, to assist our Street-Cleaning Department, the laws against throwing rubbish of all kinds into the streets should be strictly enforced. You can witness the result in any street in and about the centre of the city—that is, choked gutters and gutter-plates and filthy streets.

Our Street-Cleaning Department should be further assisted by doing away with surface drainage. I believe, as a rule, manufactories, warehouses, etc., are drained, but most of our private houses, stores and saloons allow all waste to flow into the streets. Mark you, this is not clean water, but water from baths, kitchens, etc., and will foul the street gutters and rapidly decompose in warm weather. In winter ice accumulates in the streets and alleys, and sometimes makes the latter almost impassable, thus making the removal of garbage, etc., very difficult.

All these things could be avoided by abandoning surface drainage.

HOSPITAL FOR INFECTIOUS DISEASES.

The need of such a hospital has been shown, and all that is now necessary is to build it. I earnestly recommend an appropriation of not less than $100,000, and the appointment of a special commission of competent citizens to adopt plans and construct such a building as will meet the requirements of modern treatment of infectious diseases.

BIRTHS.

A change should be made in Section 7, Article 42, of the Code of 1893, regulating the registration of births. We certainly have more births than deaths in Baltimore, but it is not so according to the registration records. This year there are 3,356 less births recorded than deaths.

According to our present law, it is recorded that a child, male or female, is born of certain parents. It frequently occurs that we receive letters requesting transcripts of the record of birth. I am advised that the above record is of no legal value as evidence. I propose that the law be so changed that the parents will be held responsible for the proper recording of the births of their children, and the name of the child be given in full so that it will serve as a legal record of the birth and age. Special provision, of course, will have to be made for the illegitimate births. By making this record of legal importance, parents will see to it that the births of their children are properly recorded.

FOOD SUPPLY.

You will see by the report of our food inspectors that quite a good deal of work has been done, but the continued delivery and sale of articles of food contrary to law leads one to believe that there must be many violations of the law undetected by our small force of inspectors—two for milk and one for meat and vegetables.

Our present laboratory force will not be able to extend the amount of work, because the time and care required for each

chemical and bacteriological examination is considerable, and only a few can be performed in one day. Lately we have been able to get rid of colored meats exposed for sale. This business has grown to such proportions that it became necessary to take radical steps to exclude it.

One of the great menaces to health, particularly to the children of the poor, is the sale of milk obtained from cows that are kept in stables within the city limits. There are about 450 stables in all, of which 150 are within the old city limits. A short time ago Judge Sharp, of the Supreme Bench, rendered very great assistance to this department by deciding that it was not necessary to notify owners of such stables when our inspector discovered violations of the law. This interpretation of the law has enabled us to accomplish permanent results. The stables within the city have been, as a rule, very filthy, and pregnant sources of diseases, but by a number of prosecutions we have succeeded in closing about forty-five stables, and the rest are kept in a fair condition. We should have power, however, to declare a cow unhealthy and order her removal from the city, We believe that no cow, after a few months' confinement to the miserable stables, can give healthy milk. We believe, too, to a great extent, this condition of affairs is responsible for the eight or nine hundred deaths of children under two years of age from bowel complaints.

SWEAT-SHOPS.

During the past year we have devoted considerable time to these unhealthy places. We are prevented obtaining permanent results by it being required of us to notify an offender to cease violating the law before we can prosecute, even though the same offender had been notified only the year previous. This should be changed so that we could prosecute any time after the offender had been once informed as to the requirements of the law.

ANNEX.

I respectfully call attention to the fact that a very large number of the nuisances in the Annex are due to want of proper provisions for the disposal of surface drainage.

I suggest that a law be passed that will require a builder to submit plans for the disposal of surface drainage to the City Engineer and Commissioner of Health for their approval. In this way we will obtain the proper grading and paving of lanes and alleys before the buildings are occupied. It is true that the Health Department has power to rectify nuisances when they develop, but it will save much time, trouble and expense if they are prevented.

NAMES OF STREETS AND NUMBER OF HOUSES.

In relation to the above subject, I again call attention to the desirability of having the names of certain streets and alleys changed and the houses thereon properly numbered. No two streets should have the same name; and, indeed, streets, avenues, lanes and alleys should receive unlike names. It frequently happens that we receive notices of diseases that exist on ——— street, when the sender of the notice intended to say alley, lane or place of the same name, which are in a different part of the city. This leads to delay and increases the work of the inspectors.

CARTS AND WAGONS.

It seems to me that the privilege our citizens have of allowing their wagons to stand in front of their premises, except Sunday, is very greatly abused.

It can be noticed by any one that it frequently interferes with the sweepers of the Street-Cleaning Department, because the wagons are placed along the sidewalks, and apparently never moved—neither night nor day, except Sunday. They also interfere with the free flow of the surface drainage, and in summer produces a foul-smelling collection of filth. This abuse goes further than this; for we find carts of all kinds (and they are frequently city garbage carts) stored in our ten-foot alleys, thus preventing the tenants cleaning their premises and obstructing drainage.

There should be a specific ordinance to deal with this matter.

HEALTH LAWS.

For many years it has been apparent to many that our health laws should be re-codified; obsolete laws should be removed; others modified, and still others added to the code. This has been made more necessary since the adoption of the New Charter. We hope to be able to soon submit to you certain proposed changes and additions. After this is completed a number of printed copies should be distributed for the guidance of all citizens.

QUARANTINE.

Attention is especially called to the report of the Quarantine Officer, Dr. John Ruhrah. We have improved the station considerably, as far as the hospital is concerned, but a very great deal is still undone. We were particularly pleased to receive the special appropriation for an artesian well, which is needed very much.

We call your attention to the fact that quarantine is nearly self-sustaining.

MARKETS.

A certain amount of dirt, especially vegetable matter, will accumulate in our market places. But I believe a great deal of labor could be saved the Street-Cleaning Department, much filth avoided, and above all, our sewers would be protected by new regulations. Time and again this market waste is allowed to remain for hours after the market is over, and then it is frequently washed or swept into sewers instead of being carted away.

It seems to me the market men, when they cut off the outer leaves of cabbage, for example, could allow them to fall into receptacles, such as barrels, which could be emptied at intervals during the market hours by the garbage men. At all events, this is done elsewhere with success.

Finally, I wish to acknowlege to all the officers of this department my appreciation of their work. Night and day, holidays and Sundays, they have all shown promptness and ability in discharge of regular duties, and in response to special orders of the department. To their special reports I respectfully call attention.

Respectfully submitted,

C. HAMPSON JONES, M.D.,

Commissioner of Health.

REPORT

—OF THE—

SECRETARY.

REPORT.

HEALTH DEPARTMENT,
BALTIMORE, January 2, 1900.

C. Hampson Jones, M.D., Commissioner of Health:

DEAR SIR.—I have the honor to submit the following statistical reports of this department for the year ending December 31, 1899.

Many changes will be noticed in a number of tables, owing to the adoption of a new system of classification of diseases and book of records. By these changes we have been enabled to present at an earlier date than formerly a more intelligent and comprehensive report of the work of this department.

Respectfully yours,

ALBERT K. HADEL, M.D.,
Secretary of the Board of Health.

VITAL STATISTICS OF THE CITY OF BALTIMORE FOR YEAR ENDING DECEMBER 31, 1899.

Estimated population, white			463,000
" " colored			78,000
Total			541,000
Marriages reported			4,828
Rate per 1,000 population			8.92
Births reported, white males	3,428		
" " white females	3,368		
		6,796	
" " colored males	611		
" " colored females	631		
		1,242	
Total reported		8,038	
Birth rate per 1,000 population, white			14.67
" " " colored			15.92
" " " whole			14.85
Still births			706
Total mortality, white males	3,983		
" " white females	3,782		
		7,765	
" " colored males	1,186		
" " colored females	1,201		
		2,387	
Total		10,152	
Annual death rate per 1,000 population, white			16.77
" " " " colored			30.60
" " " " whole			18.76
Total number of deaths from Measles		5	
" " " Scarlet fever		24	
" " " Diphtheria and croup		312	
" " " Whooping cough		19	
" " " Typhoid fever		153	
" " " Diarrhœa		165	
" " " Dysentery		57	
" " " Cholera infantum		703	
" " " Tuberculosis of lungs, (consumption)		974	
" " " Pneumonia		778	
" " " Bronchitis		267	
" " " Influenza		231	
" " " Bright's disease		648	
" " " Cancer,		329	
" " " Diseases of the heart		552	
" " " Sun and heat stroke		14	
" " " Anæmia		24	
" " " Accidents		332	

TOTAL NUMBER OF DEATHS FROM ABNORMAL CONDITIONS CONNECTED WITH PARTURITION.

Puerperal fevr	18
" convulsions	21
" peritonitis	9
Septicæmia and pyæmia	50
Hemorrhage, post partum	5
Total mortality under five years of age	3,319
" " from diarrhœal diseases under five years of age	703
" " from diarrhœal diseases, all ages	911

DEATHS IN PUPLIC INSTITUTIONS.

Baltimore City Jail	14	
Penitentiary	24	
Hospitals and asylums	1,474	
Total	1,512	
Number of Coroner's inquests		837
Total autopsies		81
Bodies received at the Morgue		325
Number of pounds disinfectant distributed		65,280

TABLE No. I.

Showing the Number of Cases Reported and Mortality from the Principal Zymotic Diseases During the Years 1894, 1895, 1896, 1897 and 1898, Compared with 1899, with Percentage of Death to Cases Reported in Each Year.

Diseases.	Cases Reported in 1894.	Deaths Reported in 1894.	Percentage of Deaths in 1894.	Cases Reported in 1895.	Deaths Reported in 1895.	Percentage of Deaths in 1895.	Cases Reported in 1896.	Deaths Reported in 1896.	Percentage of Deaths in 1896.	Cases Reported in 1897.	Deaths Reported in 1897.	Percentage of Deaths in 1897.	Cases Reported in 1898.	Deaths Reported in 1898.	Percentage of Deaths in 1898.	Cases Reported in 1899.	Deaths Reported in 1899.	Percentage of Deaths in 1899.
Diphtheria	267	198	74.15	371	265	71.42	480	249	51.87	1,491	347	23.27	2,077	412	19.83	1,780	312	17.52
Scarlet fever	999	85	8.50	775	59	7.61	694	31	4.46	928	53	5.71	588	46	7.82	434	24	5.52
Croup *a*	142	33	23.33	258	45	17.44	173	32	12.65	129	13	10.07	.....	.....	.....	.....	.....	.....
Measles	98	3	3.06	2,332	68	2.91	1,002	27	2.69	659	16	2.42	1,419	48	3.38	594	5	.84
Varialoid	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Varicella	53	1	1.88	40	.....	.....	68	2	2.94	47	1	2.12	119	.....	.....	183	.....	.....
Whooping cough	320	112	35.00	171	68	39.76	266	87	32.87	213	42	19.71	335	64	19.10	129	19	15.83
Mumps	80	1	1.25	62	2	3.22	73	1	1.36	132	.....	.....	22	.....	.....	26	.....	.....
Typhoid fever	.....	222	.....	*260	173	66.53	472	188	39.83	363	189	52.06	545	189	34.68	462	153	33.11
Consumption	.....	1,106	.....	.....	1,141	.....	.....	1,122	.....	.....	1,047	.....	.....	1,061	.....	.....	974	.....
Pneumonia	.....	790	.....	.....	933	.....	.....	884	.....	.....	759	.....	.....	889	.....	.....	898	.....
Cholera infantum	.....	440	.....	.....	510	.....	.....	412	.....	.....	401	.....	.....	386	.....	.....	.....	.....
Intestinal diseases	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	703	.....

Cholera Infantum now included in Intestinal Diseases.
Croup included with Diphtheria.

TABLE No. II.

CONTAGIOUS DISEASES REPORTED.

Diseases Reported.	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.	Total.
Diphtheria and croup	363	210	355	852	1,780
Measles	125	275	70	124	594
Scarlet fever	128	100	59	147	434
†Typhoid fever	41	39	199	183	462

†48 cases contracted outside of city.

Total births	8,048
Total still-births	706
Population estimated	541,000
Total marriages	4,828
Death rate	1,876

TABLE No. III.

General Diseases.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
I.—Epidemic Diseases.													
Typhoid fever	12	6	6	8	3	6	10	25	24	26	14	13	153
Scurvy						1							1
Smallpox			1										1
Measles	2	1		1		1							5
Scarlet fever		7	1	3	3	2	3	1		1	2	1	24
Whooping cough	2	3	1			1	2	5	2		1	2	19
Diphtheria and croup:													
a. Diphtheria	27	29	17	7	7	16	17	18	17	29	35	42	261
b. Membranous croup	2	5	7	1	2	2		1	4	4	2	8	38
c. Croup		1	1	1					1	3	3	3	13
Influenza	140	40	27	9	6	1	2	2		2	1	1	231
Cholera nostras	1			3		2	5	2		1	1	1	16
Other epidemic diseases:													
a. Yellow fever										1			1
b. Mumps	1												1
II.—Other General Diseases.													
Pyemia and Septicemia	3	5	3	4	9	7	4	6	1	2	4	2	50
Intermittent fever	2			5	1	4	5	11	5	5	2	1	41
Malarial cachexia			1		4					1		1	7
Tuberculosis:													
a. Of the lungs	92	89	115	80	85	66	70	57	75	95	75	75	974
b. Of the meninges	2	11	6	10	7	6	4	3	3	6	1	4	63
c. Of the larynx	1			4	1	2	1		1	1		2	13
d. Of the peritoneum		3	1	2	1	4	1	1	2	2	2		19

e. Of the skin	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	2
f. Of other organs	1	5	3	1	.....	2	3	2	3	1	1	2	24
g. General	21	9	11	16	10	19	9	9	1	5	3	11	124
Scrofula	1	.....	.....	2	.....	1	.....	2	1	1	.....	.....	8
Syphilis	4	3	3	4	3	2	1	1	.....	5	5	4	35
Cancer:													
a. Of the mouth	.....	2	4	4	2	.....	1	2	1	4	1	3	24
b. Of the stomach or liver	10	12	11	9	15	11	13	5	13	13	13	8	133
c. Of the intestines or rectum	.....	1	.....	.....	1	2	3	1	2	3	.....	2	15
d. Of the female genital organs	4	5	2	4	5	9	6	10	9	2	4	3	63
e. Of the breast	1	3	3	3	3	2	5	3	3	4	3	1	34
f. Of the skin	.....	1	.....	.....	1	2	.....	.....	1	1	.....	.....	6
g. Of other organs	3	6	9	3	6	6	2	4	5	5	4	1	54
Rheumatism	1	3	6	10	5	8	6	3	6	7	2	6	63
Gout	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Diabetes	2	6	4	1	1	.....	1	1	1	1	1	2	21
Diabetes melittis	.....	.....	1	3	3	.....	1	1	2	4	3	3	21
Addison's disease	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....	3
Leukemia	.....	2	.....	.....	1	3	.....	2	.....	.....	1	.....	9
Anemia, chlorosis	1	1	1	5	2	1	2	1	2	2	2	4	24
Other general diseases	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	2
Leprosy	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Forms of Poisoning.													
Alcoholism, acute and chronic	3	3	1	4	3	2	4	2	1	3	.....	5	31
Lead poisoning	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Other chronic poisonings	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	2

TABLE III.—Continued.

Local Diseases.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
III.—Diseases of the Nervous System and of the Organs of Sense													
Encephalitis	.....	.....	.....	3	1	.....	.....	2	2	2	.....	.....	10
a. Simple meningitis	10	9	19	16	9	16	15	12	8	8	7	8	137
b. Epidemic cerebro-spinal meningitis.	1	3	10	13	16	14	5	11	1	5	.....	1	80
c. Cerebral	.....	3	11	2	5	3	3	2	1	.....	3	1	34
d. Spinal	.....	.....	2	1	.....	1	1	1	1	.....	2	.....	9
Progressive locomotor ataxia	1	2	.....	1	.....	1	2	.....	.....	.....	1	.....	8
Progressive muscular atrophy	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Congestion and hemorrhage of the brain	48	32	38	29	26	35	25	21	21	37	15	31	358
Softening of the brain	.....	3	3	1	3	3	2	2	.....	4	4	6	31
Paralysis without specific cause	16	24	26	14	22	18	12	12	15	7	19	16	201
General paralysis of the insane	.....	2	5	1	1	2	1	.....	1	.....	.....	1	14
Other forms of insanity	.....	2	4	.....	1	3	3	.....	.....	2	.....	.....	15
Epilepsy	.....	.....	2	.....	.....	1	1	.....	1	4	1	1	11
Convulsions (not puerperal)	.....	.....	.....	4	1	.....	1	.....	.....	1	.....	1	8
Convulsions of infants	28	19	18	12	9	14	23	21	17	20	13	19	213
Tetanus	1	.....	.....	2	2	.....	3	3	2	2	2	.....	17
Chorea	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	2
Other nervous diseases	2	.....	3	6	3	2	2	5	.....	1	5	7	36

Diseases of the eyes	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Diseases of the ears	1	.....	.....	1	1	.....	.....	2	2	.....	2	1	10
IV.—Diseases of the Circulatory System.													
Pericarditis	.....	.....	2	.....	4	2	1	1	1	1	3	1	16
Endocarditis	2	5	4	6	5	1	5	1	5	3	3	3	43
Organic heart diseases	48	46	38	51	37	43	37	36	36	31	40	50	493
Angina pectoris	2	3	3	2	3	2	4	2	3	3	1	2	30
Diseases of the arteries, atheroma, aneurism, etc.	12	6	5	13	6	5	2	8	5	5	8	8	83
Embolism	.....	.....	1	1	1	.....	.....	1	1	.....	2	1	8
Varices, varicose ulcers, hemorrhoids	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Phlebetis and other diseases of the veins	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Other diseases of the lymphatic system	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Hemorrhage	1	.....	.....	.....	1	1	.....	.....	3	.....	2	.....	8
Other diseases of the circulatory system	6	5	.....	.....	2	1	1	.....	.....	.....	1	.....	16
V.—Diseases of the Respiratory System.													
Diseases of the larynx and thyroid gland	7	2	6	.....	1	1	.....	.....	.....	.....	1	1	19
Acute bronchitis	34	.....	29	9	10	3	4	6	4	7	4	11	121
Capillary bronchitis	7	9	6	10	6	7	1	1	2	2	2	5	58
Chronic "	.....	27	.....	15	9	5	4	6	5	3	7	7	88
Broncho-pneumonia	22	18	19	10	17	1	5	2	4	6	7	9	120
Pneumonia	116	120	104	83	54	41	24	29	20	47	49	91	778
Pleurisy	2	5	4	2	3	1	3	.....	1	3	3	6	33

TABLE III.—Continued.

Local Diseases.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Tot'l.
Congestion of the lungs (including pulmonary apoplexy)	5	4	4	6	1	.....	2	2	5	2	2	4	37
Asthma and emphysema	3	1	5	1	1	2	2	1	5	3	5	6	35
Other diseases of the respiratory system	14	9	5	1	3	4	5	1	3	4	2	1	52
VI.—Diseases of the Digestive System.													
Diseases of the mouth and its adnexa	1	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	3
Disease of the pharnyx and of the esophagus	.....	.....	2	.....	1	1	.....	1	1	.....	1	.....	7
Ulcer of the stomach	1	2	2	1	2	.....	.....	4	1	7	2	2	24
Other diseases of the stomach (cancer excepted)	10	9	19	18	15	13	16	23	7	15	7	10	162
Infantile diarrhœa and gastro-enteritis, athrepsia ("Cholera infantum")	5	6	8	1	5	92	294	160	91	28	5	8	703
Diarrhæ and enteritis	4	7	2	15	7	24	47	29	11	8	6	5	165
Dysentery	.....	.....	.....	.....	1	4	16	15	9	8	2	2	57
Hernia and intestinal obstruction	6	4	11	7	1	4	6	7	4	6	9	5	70
Other diseases of the intestines	5	3	3	.....	.....	.....	.....	1	1	2	4	3	22
Acute yellow atrophy of the liver	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	1	3
Cirrhosis of the liver	2	4	5	6	5	8	3	7	6	9	6	6	67

Biliary calculi												1	1
Other diseases of the liver	4	6	5	5	6	6	3	4	1	4	7	4	55
Peritonitis (not puerperal).	4	5	7	1	4	5	6	5	6	7	4	3	57
Other diseases of the digestive system (cancer and tuberculosis excepted)						2		1				1	4
Iliac abscess (typhilitis, perityphilitis, appendicitis)		3	4	1	7	7	8	5	7	6	3	1	52
Diseases of the anus and fecal fistulas	1					1		1	1				4
VII.—Diseases of the Genito-Urinary System.													
Acute nephritis									3	6	2	9	20
Bright's disease	57	56	70	61	60	49	50	43	39	46	58	59	648
Perinephritis and perinephritic abscess			1							1	1		3
Renal calculus	1												1
Other diseases of the kidneys and adnexa	1		4				2	2		3			12
Vesical calculi	1			1	1	2		1	1	1	1		9
Diseases of the bladder		1	1		2	5		1	2	3	1	1	17
Diseases of the urethra (urinary abscess, etc.)								1	1				2
Diseases of the prostrate	1		2					2	1	2		1	9
Pelvic abscess					1		1						2
Uterine hemorrhage (not puerperal)			1		1			1	1	1			5
Uterine tumor (not cancer)	1	1						1		2	1	2	8
Other diseases of the uteras		1			1				1		2	1	6
Ovarian cysts and ovarian tumor				1	2	1		2	1	2	2		11

TABLE III.—Continued.

Local Diseases.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Other diseases of the female genital organs	.....	.....	1	1	.....	1	1	4	.....	2	.....	1	11
VIII.—Puerperal Diseases.													
Accidents of pregnancy	1	2	2	1	1	3	1	.....	3	.....	.....	1	15
Puerperal hemorrhage	.....	.....	.....	1	1	.....	.....	.....	1	.....	2	.....	5
Other accidents of delivery	2	4	3	1	4	5	6	3	4	3	3	2	40
Puerperal septicemia:													
a. Septicemia	1	2	2	2	.....	3	.....	1	1	2	2	2	18
Puerperal metroperitonitis	1	1	.....	1	.....	1	1	2	.....	2	.....	.....	9
Puerperal albuminuria and convulsions	1	2	3	2	2	2	1	1	3	1	1	2	21
IX.—Diseases of the Skin and Cellular Tissue.													
Erysipelas	3	2	.....	3	1	4	3	1	1	1	.....	2	21
Gangrene	.....	3	3	.....	3	1	6	4	3	2	1	1	27
Anthrax	.....	.....	1	.....	.....	.....	2	.....	.....	.....	.....	.....	3
Phlegmon, acute abscess	.....	.....	3	1	1	1	.....	.....	2	2	1	4	15
Other diseases of the skin and its adnexa (cancer excepted)	5	1	2	3	2	.....	.....	2	1	1	.....	.....	17
X.—Diseases of the Locomotor System.													
Pott's disease	1	1	1	.....	.....	.....	.....	.....	.....	1	.....	.....	4
Chronic or cold abscess	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2

Other diseases of the bones	1	1	3	1	1	1	1	.....	1	2	1	1	14
White swellings	.....	.....	.....	.....	.....	1	1	1	.....	.....	.....	.....	3
Other diseases of the joints	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4
XI.—Malformations.													
Hydrocephalus, etc.	1	1	1	1	1	1	4	4	3	.....	3	1	21
XII.—Diseases of Infancy.													
Congenital debility, jaundice and sclerema (premature birth.)	16	19	12	14	29	36	19	24	24	22	19	13	247
Inanition	12	16	11	13	20	19	32	14	18	29	16	10	210
Other diseases of infancy	7	5	14	9	5	22	55	45	57	32	20	12	283
XIII.—Diseases of Old Age.													
Senile debility	48	39	26	43	29	23	19	31	25	24	23	28	358
XIV.—Violence.													
A.—Suicide.													
a. Poison	.....	1	.....	.....	3	1	1	4	.....	.....	2	3	15
b. Asphyxia	.....	.....	.....	.....	1	2	.....	.....	.....	.....	1	.....	4
c. Strangulation	2	1	.....	2	.....	3	1	.....	.....	2	2	.....	13
d. Drowning	.....	.....	.....	.....	.....	.....	1	1	1	.....	.....	.....	3
e. Firearms	3	.....	.....	1	1	2	2	1	1	1	.....	3	15
f. Precipitation from a height	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	2	3
g. Other methods	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
B.—Accident—Fractures													
a. Of the femur	4	1	2	2	1	1	2	4	3	.....	2	1	23
b. Of the skull	3	2	6	2	7	3	.....	3	2	.....	4	3	35
c. Of the vertabrae	6	.....	.....	.....	1	.....	1	.....	.....	.....	1	.....	9

TABLE III.—Concluded.

Local Diseases.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Total.
d. Other fractures								2	1	2	1		6
Other accidental injuries	2			2	4	1				1			10
Gunshot	4	1		2		1	2		2		2		14
Railroad accidents and injuries	2	2	1	3	3	5	4	3	5	3	4	6	41
Burning—													
a. Fire (burn)	6	5	3	1	7	5	3	5	8	4	7	9	63
b. Hot liquid (scald)	1		1	2		2			1	1	2		10
Sunstroke and freezing			2			9	3	2					16
Accidental drowning	2		3	5	8	7	9	16	8	4	1		63
Inhalation of noxious gases (not suicidal) (conflagration)				2	1	1			1	4	1	1	11
Other accidental poisoning	2	2					1	3		3	1		12
Other external violence:													
a. Other accidents	5	2	2	2	3	3	6	1	1	2	1	3	31
b. Legal executions							4						4
C.—Homicide	1									2	1	5	9
XV.—Causes Ill-defined.													
Exhaustion, cachexia, debility	28	19	21	27	21	10	1	5	1	5	1	1	140
Fever, inflammation (not well defined)	1		4	1		1		1					8
Dropsy	2	1	3	1	1	2		2			4	3	19
Heart failure	3	1	5	2	3	1	4		3	1	2	4	29

Asphyxia, cyanosis (not congenital)	1	4	11	7	1	2	.....	2	1	.....	.....	2	31
Sudden death (not puerperal)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Abdominal tumors	.....	1	.....	1	1	.....	.....	.....	.....	3	.....	3	9
Other tumors	3	1	1	1	.....	2	1	1	.....	.....	.....	1	11
Wounds, surgical shock	.....	.....	3	1	.....	1	.....	1	1	.....	.....	.....	7
Unknown or not specified causes	2	16	12	6	7	3	3	1	.....	3	4	3	60
													10,152

TABLE No. IV.

Deaths According to Age, Sex and Color for Year 1899—White.

AGES.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Totals.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Under 1 year	74	59	74	51	52	46	65	44	45	45	104	86	193	177	116	108	82	80	64	60	40	39	48	35	1,787
Between 1 and 2 years	9	9	13	14	16	9	10	10	12	9	9	12	14	14	18	18	16	11	16	18	9	4	9	6	285
" 2 " 5 "	24	8	26	19	19	19	13	11	9	10	16	13	9	12	15	14	14	15	12	13	12	12	22	12	350
Total under 5 years	107	76	113	84	87	74	87	65	66	64	129	111	216	203	149	140	112	106	92	91	61	55	79	55	2,422
Between 5 and 10 years	11	8	8	9	6	3	10	9	10	9	7	6	8	8	10	7	9	14	13	12	4	17	8	11	217
" 10 " 15 "	9	3	6	4	7	5	9	9	5	5	5	2	9	5	5	9	6	4	4	4	6	5	4	7	137
" 15 " 20 "	7	11	10	7	8	9	9	9	9	13	10	4	8	8	9	4	7	4	12	13	7	6	8	8	200
" 20 " 30 "	41	23	22	26	32	27	23	26	31	20	23	28	25	26	24	28	20	25	21	27	21	17	27	25	608
" 30 " 40 "	25	27	37	23	31	37	35	18	32	27	28	27	25	20	37	22	24	26	24	35	29	22	28	19	658
" 40 " 50 "	42	26	26	29	37	36	38	24	27	16	27	20	22	20	33	23	30	22	35	27	25	29	41	18	673
" 50 " 60 "	52	42	35	25	40	40	36	33	40	23	32	26	25	31	36	22	19	24	34	24	30	27	37	29	762
" 60 " 70 "	46	59	44	39	34	53	40	29	47	33	25	38	28	40	31	27	34	28	33	27	43	40	40	41	899
" 70 " 80 "	46	78	34	42	47	49	27	42	24	20	32	36	29	27	22	39	16	25	25	34	22	23	24	39	802
" 80 " 90 "	15	30	17	26	11	13	13	28	11	19	8	7	7	13	9	14	9	15	10	11	5	20	18	8	337
" 90 " 110 "	2	7	2	1	.....	3	.....	1	1	.....	.....	2	.....	3	1	6	.....	5	2	3	.....	4	1	3	47
Unknown	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
Totals	404	390	354	315	340	349	327	293	303	249	326	307	402	404	366	341	286	298	305	308	253	265	315	263	7,764

TABLE No. V.

BIRTHS FOR 1899.

BIRTHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
White—Males.	352	292	320	227	222	236	307	280	321	323	220	328	3,438
" —Females.	316	292	321	213	227	212	284	305	309	301	253	335	3,368
Total.	668	584	641	440	449	448	591	585	630	624	473	663	6,806
Colored—Males.	79	61	45	38	42	44	63	44	52	57	43	43	631
" —Females	75	60	51	54	43	50	45	59	43	49	46	56	611
Total	154	121	96	92	85	94	108	103	95	106	89	99	1,242
Total births reported	822	705	737	532	534	542	699	688	725	730	562	762	8,048
Illegitimate—White Males	20	14	9	6	1	5	8	6	9	10	1	6	95
" — " Females.	19	11	1	3	1	11	6	4	6	5	6	5	78
" —Colored Males.	22	20	8	13	4	16	14	14	17	14	10	11	163
" — " Females.	26	21	11	16	1	11	9	14	5	12	9	10	145
Total illegitimate.	87	66	29	38	7	43	39	38	37	41	26	32	481

TABLE No. VI

Months.	Small-Pox.	Measles.	Scarlet Fever.	Diphtheria and Pseudo-Mem. Croup.	Croup.	Whooping Cough.	Typhoid Fever.	Diarrheal Diseases.	Puerperal Fever.	Diarrheal Diseases Under 5 Years.	Cancer.	Phthisis.	Other Tuberculous Diseases.	Congenital Debility *a*	Diseases of the Nervous System.	Heart Disease.	Bronchitis.	Pneumonia.	Diseases of the Digestive Organs.	Brights Disease.	All Other Diseases.	Accident.	Murder.	Suicide.	Total Deaths.	Total Deaths Under 5 Years.
January	.....	2	.....	29	.....	2	12	9	1	5	18	92	25	36	107	61	34	138	33	56	315	38	1	5	1,019	269
February	.....	1	7	34	1	3	6	7	2	6	30	89	28	40	80	65	27	138	36	57	221	15	.....	2	895	289
March	1	.....	1	24	1	1	6	2	2	8	29	115	21	37	142	47	35	123	58	70	198	20	.....	.....	941	245
April	.....	1	3	8	1	.....	8	16	2	1	23	80	33	35	106	59	34	93	39	61	185	23	.....	3	814	213
May	.....	.....	3	9	.....	.....	3	13	.....	5	33	85	19	29	99	49	19	71	41	60	179	35	.....	5	752	195
June	.....	1	2	18	.....	1	6	120	3	92	32	66	33	36	114	48	8	42	47	49	170	38	.....	8	842	316
July	.....	.....	3	17	.....	2	10	357	.....	294	30	70	18	19	99	47	8	29	42	50	196	31	.....	4	1,032	543
August	.....	.....	1	19	.....	5	25	204	1	160	25	57	16	24	92	40	13	31	60	43	185	39	.....	6	886	365
September	.....	.....	.....	21	1	2	24	111	1	98	35	75	10	24	70	45	9	24	37	39	185	32	.....	2	747	286
October	.....	.....	1	33	3	.....	26	44	2	28	32	95	16	22	93	38	12	53	57	46	187	24	2	6	792	237
November	.....	.....	2	37	3	1	14	13	2	5	25	75	7	19	72	47	13	56	43	58	143	27	1	5	663	163
December	.....	.....	1	50	3	2	13	15	2	8	18	75	19	13	92	56	18	100	37	59	160	23	5	8	769	198
Totals	1	5	24	299	13	19	153	911	18	703	330	974	245	335	1,166	602	230	898	530	648	2,324	345	9	54	10,152	3,31

TABLE No. VII.

Comparison of Deaths from All Causes, and from Specified and Contagious Diseases for Twenty-three Years, from 1877 to 1899, inclusive.

YEARS.	Population.	Measles.	Scarlet Fever.	Typhoid Fever.	Croup.	Diphtheria.	Whooping Cough.	Dysentery	Cholera Infantum.	Childen under 5 Yrs.	Total Mortality. All Causes.
1877	311,275	161	597	235	157	455	297	52	616	4,584	7,910
1878	318,182	11	141	176	149	303	63	41	343	3,372	6,733
1879	325,139	43	367	166	186	298	80	60	475	3,385	7,618
1880	332,313	12	400	196	173	293	148	57	503	3,602	8,043
1881	339,649	162	215	197	242	639	93	56	558	3,919	8,116
1882	347,142	71	179	165	222	707	43	62	390	3,755	8,923
1883	354,832	130	334	126	201	591	59	52	473	4,062	9,380
1884	362,668	228	104	151	127	343	120	43	496	3,643	8,293
1885	370,696	16	68	155	148	252	63	60	498	3,228	8,153
1886	378,903	201	32	150	128	190	91	84	485	3,565	8,339
1887	387,300	85	36	156	153	149	98	137	567	3,477	8,372
1888	395,899	176	44	161	98	118	112	167	654	3,881	8,936
1889	404,498	11	71	191	53	155	54	156	572	3,505	8,703
1890	413,671	248	42	247	45	274	100	212	507	4,117	10,198
1891	426,917	16	128	150	44	350	103	118	531	3,910	10,073
1892	440,163	120	258	193	47	381	32	109	661	4,443	10,582
1893	453,409	39	36	224	25	185	60	62	444	3,604	9,554
1894	466,655	3	85	222	33	198	112	72	440	3,761	9,486
1895	479,907	68	59	173	45	265	68	70	510	4,026	10,301
1896	493,147	27	31	188	32	249	87	82	412	3,728	9,919
1897	506,398	16	53	189	13	347	42	57	401	3,510	9,329
1898	541,000	48	46	189	50	362	64	82	386	3,939	10,385
1899	541,000	5	24	153	...	312	19	...	.....	3,319	10,152

Croup included with diphtheria.

Cholera infantum now included with intestinal disease.

TABLE No. VIII.

SHOWING TOTAL DEATHS, AND DEATHS FROM ZYMOTIC DISEASES FOR TWENTY-FIVE YEARS, WITH PERCENTAGE OF DEATHS TO TOTAL MORTALITY FROM 1875 TO 1899, INCLUSIVE.

	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.
Total deaths, exclusive of still births	7,258	7,498	7,910	6,733	7,618	8,043	8,816	8,923	9,380	8,035	8,153	8,339	8,244	8,936	9,365	10,198	10,073	10,582	9,554	9,486	10,301	9,919	9,329	10,385	10,152
Death rate	22.33	22.38	22.60	18.44	19.30	20.41	22.37	21.81	22.93	20.77	19.55	19.98	19.16	17.87	17.40	22.41	22.14	23.25	20.99	20.84	20.76	19.60	18.43	19.19	18.76
Still births	560	588	538	655	620	636	651	677	701	746	650	718	669	694	784	800	811	813	770	721	666	678	706	748	706
Rate of still births to 1,000 inhabitants	1.70	1.75	1.53	1.79	1.57	1.61	1.65	1.71	1.71	1.82	1.59	1.72	1.60	1.63	1.84	1.75	1.78	1.78	1.69	1.58	1.34	1.33	1.39	1.38	1.41
DEATHS FROM ZYMOTIC DISEASES.																									
Diphtheria and croup	238	249	557	452	384	476	881	929	792	470	400	318	302	216	206	319	394	428	210	231	310	281	360	412	312
Fever, scarlet	519	562	447	141	80	400	215	179	334	104	68	32	36	44	71	42	128	258	36	85	59	31	53	46	24
" typhoid	187	176	201	175	367	196	197	165	126	151	155	150	156	161	191	247	150	193	224	222	173	188	189	189	153
" cerebro spinal	53	25	17	26	1	26	37	38	42	20	24	24	19	22	18	31	18	38	59	26	27	32	22	3	.....
Whooping cough	78	39	303	63	80	148	93	43	59	120	63	91	98	112	54	100	103	32	60	112	68	87	42	64	19
Measles	15	43	151	11	43	12	75	71	130	228	16	201	85	176	11	248	16	120	39	3	68	27	16	48	5
Small-pox	1	.....	.....	1	1	1	11	551	633	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Total zymotic diseases	1,091	1,094	1,676	869	956	1,259	1,509	1,976	2,116	1,094	726	817	696	731	551	987	809	1,069	628	679	705	646	682	762	514
Percentage of zymotic deaths to total mortality	15 03	14.59	21.18	12.90	12.53	15.65	17.11	22.14	22.25	13.51	8.90	9.78	8.46	8.18	5.88	9.67	8 03	10.10	6 57	7.15	6.84	6.51	7.31	6.85	5 06

TABLE No. IX.

Showing the Number of Deaths Annually from Typhoid Fever During a Period of Twelve Years, from 1888 to 1899, Inclusive, Male and Female, White and Colored, in the City of Baltimore.

Year.	Estimated Population.	White.			Colored.			Total Males.	Total Females.	Total Deaths.
		Males.	Females.	Total.	Males.	Females.	Total.			
1888	395,899	88	90	178	80	14	94	168	104	272
1889	404,498	88	93	181	23	20	43	111	113	224
1890	413,671	135	109	244	26	31	57	161	140	301
1891	426,917	82	75	157	13	19	32	95	94	189
1892	440,163	90	102	192	19	15	34	109	117	226
1893	453,409	108	120	228	11	16	27	119	136	255
1894	466,655	103	104	207	23	27	50	126	131	257
1895	479,907	82	75	157	21	14	35	103	89	192
1896	493,147	93	81	174	16	14	30	109	95	204
1897	506,398	99	76	175	20	14	34	119	90	209
1898	541,000	96	62	158	19	24	43	115	86	201
1899	541,000	67	52	119	18	16	34	85	68	153

TABLE No. X.

Deaths According to Age, Sex and Color for the Year 1899.—Colored.

Ages.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Totals.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Under one year	32	26	30	27	26	26	27	18	23	22	34	21	51	52	25	32	25	29	25	17	20	14	19	22	646
Between 1 and 2 years	3	3	6	8	3	10	2	3	4	5	2	5	5	5	3	6	3	3	1	5	4	4	4	7	124
" 2 " 5 "	15	7	12	6	9	10	2	9	7	4	8	6	7	4	3	7	6	2	2	4	3	2	9	3	127
Total under 5 years	50	36	51	41	38	46	31	30	34	31	44	32	63	61	31	45	34	34	28	26	27	20	32	32	897
Between 5 and 10 years	4	4	3	4	6	5	6	5	5	3	2	4	3	2	.....	1	.....	6	2	2	3	5	3	4	82
" 10 " 15 "	4	2	1	2	3	1	7	6	2	6	5	1	3	1	1	2	1	4	2	3	.....	6	1	1	65
" 15 " 20 "	3	7	2	7	3	5	6	5	5	7	3	6	4	4	2	6	1	4	6	7	3	3	6	3	108
" 20 " 30 "	11	17	20	7	17	8	10	3	17	11	10	10	11	5	14	8	9	14	12	16	10	11	10	17	278
" 30 " 40 "	11	11	10	9	14	14	13	14	7	7	13	9	12	11	10	11	7	7	9	12	7	8	11	12	249
" 40 " 50 "	6	9	8	4	16	12	9	7	12	9	10	8	10	7	9	10	8	5	8	8	5	11	11	9	211
" 50 " 60 "	5	11	11	11	13	12	11	7	10	7	12	8	6	6	3	10	7	6	6	11	4	4	12	8	201
" 60 " 70 "	9	11	9	10	14	5	2	6	6	5	7	5	4	5	4	2	8	5	4	1	2	8	3	3	138
" 70 " 80 "	5	4	2	8	3	8	3	7	6	5	6	8	1	3	2	3	.....	1	4	5	4	.....	2	3	93
" 80 " 90 "	.....	2	1	4	2	4	1	3	1	1	.....	4	1	.....	.....	3	.....	.....	1	4	.....	4	2	2	40
" 90 " 110 "	1	2	.....	.....	1	2	.....	2	1	1	.....	1	.....	2	.....	2	1	1	.....	2	.....	.....	1	3	23
Unknown	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
Totals	109	116	119	107	130	122	99	95	106	93	112	97	119	107	76	103	76	87	82	97	65	80	94	97	2,388

TABLE No. XI.

Showing Deaths During the Year 1899 in Monthly Periods by Sex, Color and Nativity.

Months.	Native White.			Foreign White.			White.			Colored.			Totals.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Totals.
January	284	273	557	115	117	232	404	390	794	109	116	225	513	506	1,019
February	267	239	506	84	76	160	354	315	669	119	107	226	473	422	895
March	260	265	525	80	84	164	340	349	689	130	122	252	570	471	941
April	255	211	466	72	82	154	327	293	620	99	95	194	426	388	814
May	221	185	406	77	64	141	304	249	553	106	93	199	410	342	752
June	256	240	496	68	67	135	327	307	634	111	97	208	438	404	842
July	344	335	679	58	69	127	402	404	806	119	107	226	521	511	1,032
August	285	286	571	78	55	133	366	341	707	76	103	179	442	444	886
September	223	244	467	62	54	116	286	298	584	76	87	163	362	385	747
October	237	236	473	66	72	138	305	308	613	82	97	179	387	405	792
November	193	199	392	58	66	124	253	265	518	65	80	145	318	345	663
December	240	188	428	74	74	148	315	263	578	93	97	190	409	360	768
*Unknown	26	1	27	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....
Total	3,091	2,902	5,993	892	880	1,772	3,983	3,782	7,765	1,186	1,191	2,377	5,269	4,883	10,152

*Included in total.

TABLE No. XII.

Total Number of Deaths Monthly in Each Ward, 1899.

Months.	Wards.																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total.
January.....	43	96	44	44	31	45	45	52	41	41	22	39	51	54	24	34	30	29	42	46	54	35	44	33	1,019
February...	32	85	26	38	35	54	41	56	33	38	20	28	40	45	29	35	27	37	34	23	37	35	38	29	895
March.....	51	83	29	34	42	49	32	47	37	30	14	47	54	54	43	21	31	29	24	42	55	34	25	34	941
April.....	32	66	44	32	32	45	40	43	41	18	24	33	31	41	23	20	27	38	34	38	37	21	26	28	814
May.....	29	77	39	27	21	43	30	58	30	20	21	28	47	44	29	16	27	27	20	29	38	18	16	18	752
June.....	38	79	32	34	37	53	43	41	31	39	15	35	38	44	21	23	27	24	33	25	39	30	25	36	842
July	48	81	33	39	50	74	59	57	41	35	31	53	30	51	37	24	45	30	31	29	54	30	31	39	1,032
August.....	33	73	29	31	43	51	36	47	46	33	25	29	37	48	20	25	29	41	27	31	33	53	26	40	886
September.	28	67	26	31	59	53	33	49	41	19	19	34	23	37	19	20	21	18	14	29	55	19	25	28	747
October.....	35	71	32	22	42	39	30	45	32	34	21	30	33	44	26	28	22	33	28	32	31	23	27	32	792
November..	27	66	32	16	32	23	28	40	29	29	16	28	40	34	22	16	21	23	25	14	42	20	19	21	663
December..	32	68	26	26	27	26	26	34	35	30	24	32	45	47	29	20	23	39	31	29	40	32	25	23	739
	428	912	392	374	451	555	443	569	437	366	252	416	469	543	322	282	330	368	343	367	515	350	327	361	10,152

TABLE No. XIII.

Cases of Contagious Diseases Reported During 1899.

Diseases Reported.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Small-pox	2	2	7	2	3	.....	1	.....	.....	.....	.....	1	18
Yellow fever	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Typhoid fever	19	15	7	15	8	16	22	74	103	108	41	34	462
Diphtheria and croup	137	121	105	79	63	68	49	128	179	240	305	309	1,783
Scarlet fever	38	34	56	36	42	22	11	15	33	55	35	57	434
Varicella	13	17	9	12	8	11	3	4	3	7	32	64	183
Measles	46	53	26	40	96	139	49	10	11	5	30	89	594
Mumps	1	.....	2	1	2	6	2	.....	4	2	2	4	26
Whooping-cough	6	7	3	9	5	7	26	11	16	3	20	7	120
Total	262	249	215	194	227	269	163	242	349	421	465	565	3,621

TABLE No. XIV—NATIVITY, 1899.

NATIVITY.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
United States, white males.	284	267	260	255	221	256	344	285	223	237	193	240	3,065
" " " females	273	239	265	211	185	240	335	286	244	236	199	188	2,901
Foreign, white males	115	84	80	72	77	68	58	78	62	66	58	74	892
" " females	117	76	84	82	64	67	69	55	54	72	66	74	880
Colored, males	109	119	130	99	106	111	119	76	76	82	65	93	1,185
" females	116	107	122	95	93	97	107	103	87	97	80	97	1,201
Unkown, males	5	3			6	3		3	1	2	2	2	27
" females												1	1
Totals	1,019	895	941	814	752	842	1,032	886	747	792	663	769	10,152

STILL-BIRTHS, 1899.

NATIVITY.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
White males	24	16	26	30	22	20	21	17	28	31	24	24	285
" females	19	17	18	14	18	17	23	21	16	17	8	24	212
Colored males	10	11	18	11	15	6	10	12	10	10	10	10	131
" females	5	11	1	7	7	5	6	8	6	7	11	4	78
Totals	58	55	63	62	62	48	60	58	60	65	53	62	706
Marriages reported	362	308	314	486	304	552	306	359	408	492	518	419	4,828

TABLE No. XV.

Ages—1899.

AGES.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Under 1 year	191	185	150	154	135	245	473	281	216	166	113	124	2,433
Between 1 and 2 years	24	41	38	25	30	28	38	45	33	40	21	26	389
" 2 and 5 years	54	63	57	34	30	43	32	39	37	31	29	48	497
Total under 5 years	269	289	245	213	195	316	543	365	286	237	163	198	3,319
Between 5 and 10 years	27	24	20	30	27	19	21	18	29	29	29	26	299
" 10 and 15 "	18	13	16	31	18	13	18	17	15	13	17	13	202
" 15 and 20 "	28	26	25	29	34	23	24	21	16	38	19	25	308
" 20 and 30 "	92	75	84	62	79	71	67	74	68	76	59	79	884
" 30 and 40 "	74	79	96	80	73	77	68	80	64	80	66	70	907
" 40 and 50 "	83	67	101	78	64	65	59	75	65	78	70	79	887
" 50 and 60 "	110	82	105	87	80	78	68	71	56	75	65	86	963
" 60 and 70 "	125	102	106	77	91	75	77	64	75	65	93	87	1,036
" 70 and 80 "	133	86	107	79	55	82	60	66	42	68	49	68	895
" 80 and 90 "	47	48	30	45	32	19	21	26	24	26	29	30	377
" 90 and 100 "	10	3	5	2	3	2	5	9	6	7	4	7	63
" 100 and 110 "	2	.....	1	1	.....	1	.....	.....	1	.....	.....	.....	6
Above 110 years	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Unknown	1	1	.....	.....	1	1	1	.....	.....	.....	.....	.....	5
Total	1,019	895	941	814	752	842	1,032	886	747	792	663	769	10,152

TABLE No. XVI.

SALARIES—HEALTH DEPARTMENT, FOR YEAR 1899.

		Dr.			*Cr.*	
To voucher No.	1	$3,246	80	By general appropriation	$47,260	00
" " "	47	3,314	89			
" " "	90	4,971	59			
" " "	130	3,314	89			
" " "	156	3,315	14			
" " "	178	15	05			
" " "	180	4,974	84			
" " "	230	3,315	14			
" " "	261	3,270	45			
" " "	283	4,974	56			
" " "	340	44	44			
" " "	341	3,315	14			
" " "	378	3,315	14			
" " "	423	4,990	14			
		$46,378	21			
By unexpended balance		881	79			
		$47,260	00		$47,260	00

TABLE No. XVII.

GENERAL HEALTH ACCOUNT FOR THE YEAR 1899. APPROPRIATION $12,000.

	Dr.		*Cr.*
To 461 warrants on Comptroller	$12,000 00	By hire of horses, harness, carriages and horse-shoeing	$2 144 51
		" fumigating and disinfecting	1,119 03
		" car fare	402 09
		" printing and stationery	365 25
		" coffins for city dead	687 25
		" salary of extra force	1,444 17
		" expenses of old Quarantine	730 00
		" rent of 1330 Philpot street	144 00
		" care of city patients	340 40
		" antitoxin and syringes	768 50
		" vaccine virus	1,249 80
		" expenses of Morgue	226 83
		" expenses of laboratory	534 74
		" rent of telephones	825 95
		" repairs to wagons and carriages	144 15
		" postage stamps and cards	615 00
		" digging trenches at city cemeteries	95 00
		" advertisements	47 42
		" hire of tug	30 00
		" sundry bills	312 53
	$12,000 00		$12,000 00

TABLE No. XVIII.

SALARY ACCOUNT FOR CITY ANNEX FOR YEAR 1899—APPROPRIATION $3,800.00.

	Dr.		*Cr.*
To voucher No. 1	$266 68	By appropriation	$3,800 00
" " " 47	266 64		
" " " 90	416 68		
" " " 130	266 64		
" " " 156	266 68		
" " " 180	416 64		
" " " 230	266 68		
" " " 261	266 64		
" " " 283	416 64		
" " " 341	266 68		
" " " 378	266 68		
" " " 423	416 72		
	$3,800 00		$3,800 00

TABLE No. XIX.—Emergency Appropriations, Health Department, for Year 1899, $4,500.00.

	Dr.	
To voucher No. 1	$1,177 80	
" " " 3	360 00	
" " " 4	462 20	
" " " 6	1,000 00	
" " " 2 and 5, (as detailed below, salaries of extra vaccine physicians:)	1,500 00	
Dr. J. L. Spruill	$52 00	$4,500 00
Dr. Henry Nice	56 00	
Dr. C. W. Didenhover	58 00	
Dr J. L. Winner	54 00	
Dr. G. W. Lubschansky	54 00	
Dr H. C. Teal	54 00	
Dr. M. L. Todd	52 00	
Dr. W. G. Townsend	54 00	
Dr. H. C. Burns	12 00	
Dr. Gilman P. Evans	56 00	
Dr. R. H. Johnson	50 00	
Dr. M. C. Robbins	56 00	
Dr. L. C. Stitely	46 00	
Dr. W. J. Pillsbury	50 00	
Dr. A. M. Belt	52 00	
Dr. R. S. Kirk	56 00	
Dr. A. D. Atkinson	42 00	
Dr. R. S. Page	52 00	
Dr. Wm. F. Pentz	10 00	
Dr. E. A. Munoz	52 00	
Dr. C. S. Keefer	50 00	
Dr. Alfred B. Giles	54 00	
Dr. W. B. Hawkins	2 00	
Dr. Joseph C. Muse	44 00	
Dr. Charles L. Ney	52 00	
Dr. J. H. Ullrich	52 00	
Dr. Joseph Hart	50 00	
Dr. William Grant	62 00	
Dr. L. E. Conradi	54 00	
Dr. H. C. Knapp	58 00	
Dr. John H. Groshans	54 00	
	$1,500 00	

	Cr.
By emergency appropriation (special)	$4,500 00
	$4,500 00

TABLE No. XX.

		Dr.			*Cr.*	
Voucher No.	1	$806	85	Deficiency appropriation, January, 1899...	$1,436	75
" "	2	3	00			
" "	3	7	80			
" "	4	19	50			
" "	5	1	15			
" "	6	1	50			
" "	7	2	00			
" "	8	60	83			
" "	9	7	46			
" "	10	29	40			
" "	11	12	00			
" "	12	6	42			
" "	13	15	00			
" "	14	1	70			
" "	15	175	00			
" "	16	3	06			
" "	17	36	00			
" "	18	15	00			
" "	19	232	50			
" "	20		58			
		$1 436	75		$1,436	75

TABLE No. XXI.

SALARIES—QUARANTINE HOSPITAL FOR YEAR 1899.

	Dr.		*Cr.*
To voucher No. 1	$990 00	By appropriation	$12,000 00
" " " 15	990 00		
" " " 32	997 00		
" " " 52	990 00		
" " " 70	1,013 00		
" " " 88	1,018 00		
" " " 109	1,000 00		
" " " 129	1,007 00		
" " " 141	991 00		
" " " 158	985 00		
" " " 182	990 00		
" " " 202	985 00		
	11,965 00		
By unexpended balance	35 00		
	$12,000 00		$12,000 00

TABLE No. XXII.

QUARANTINE HOSPITAL ACCOUNT FOR YEAR 1899. APPROPRIATION, $10,000.00.

	Dr.		*Cr.*
To 224 vouchers on Comptroller	$10,000 00	By tug hire	$2,997 75
		" engineer's supplies	516 51
		" hospital supplies	764 35
		" repairs to tug "Hygeia,"	1,128 73
		" medicines	193 81
		" market supplies	1,348 84
		" coal for tug "Hygeia"	662 06
		" repairs to hospital and grounds	160 30
		" groceries	579 64
		" farming implements and seeds	116 64
		" feed for live stock	168 51
		" car-fare and postage	73 91
		" difference in exchange for pair of horses	300 00
		By electric supplies	151 25
		" repairs to wharf	145 00
		" ice	182 54
		" new wagon	200 00
		" sundry bills	310 16
	$10,000 00		$10,000 00

TABLE No. XXIII.

SPECIAL APPROPRIATION—QUARNTINE—FOR REPAIRS OF TUG "HYGEIA."

	Dr.
To appropriation for year 1899	$1,500 00
	$1,500 00

1899.			*Cr.*
Aug.	5,	by James Clark & Co	$ 23 10
"	5,	" Charles A. Risster	63 50
"	5,	" Charles C. Fulton & Co	23 93
"	5,	" Stevenson & Magee	47 00
"	5,	" A. S. Abell & Co	24 75
"	5,	" John Turnbull & Co	63 00
"	5,	" Herald Publishing Co	19 94
"	5,	" C. D. Jones	2 00
"	21,	" R. M. Spedden Co	1,208 60
"	21,	" George Suit	5 20
"	21,	" James H. Jory	5 20
"	21,	" James R. Adams	5 20
"	21,	" Gerge F. Sloan & Bro	4 16
"	23,	" Bolton Brothers	4 42
			$1,500 00

TABLE No. XXIV.

Statement of Appropriations to, Expenditures by, and Unexpended Balances of the Health Department for the Year 1899.

Appropriations.

Salaries	$47,260 00
General health	12,000 00
Quarantine Hospital	22,000 00
Salaries, Annex	3,800 00
Special appropriation, Health Department, (emergency)	4,500 00
Special appropriation, Health Department, (deficiency)	560 84
Special appropriation for the repair of the tug "Hygeia"	1,500 00

Expenditures.

Salaries, Health Department	$46,378 21
General health	12,000 00
Quarantine Hospital	21,965 00
Salaries, Health Department, (Annex)	3,800 00
Special appropriation, Health Department, (emergency)	4,500 00
Special appropriation, Health Department, (deficiency)	560 84

Unexpended Balances.

Salaries, Health Department	881 79
Salaries, Quarantine Hospital	35 00
Received from sale of Antitoxin and Formaldehyde	44 65
Received for transcripts of births and deaths	329 00
	$373 65

ALBERT K. HADEL, M.D.,

Secretary of the Board of Health.

TRANSCRIPTS FROM THE BIRTHS AND DEATHS FOR THE YEAR ENDING DECEMBER 31, 1899.

From the Record of Deaths.

For pension claims	214
For life insurance claims	246
To prove death	155
To be sent to foreign countries	20
	635

From Record of Births.

For pension claims	15
To prove death	8
	23

REPORT

—OF THE—

ASSISTANT COMMISSIONER OF HEALTH.

Report of the Assistant Commissioner of Health.

BALTIMORE, January 2nd, 1900.

C. Hampson Jones, M. D., Commissioner of Health:

DEAR SIR: I herewith respectfully submit my report, showing work done by department under my charge for the year ending December 31, 1899.

The table indicating services rendered by the sanitary inspectors will show that 81,227 notices to abate nuisances have been issued; an increase of over 40,652 over last year; and that 4,089 bacteriological cultures were made by them, showing an increase of 2,544 over last year.

By the directions of the Department, 56 steamships have been examined, and 20,009 mattresses have been taken from them and burned; and 787 cart-loads of refuse, etc., have been removed from steamships and destroyed.

The disinfectors deserve the compliments of the city for the amount of work done by them, and for the manner in which they have done it, with their limited number, having disinfected 2,069 premises.

The inspections of cow stables were 897, an increase of 134 over last year; and 6,144 cows were examined, showing an increase of 1,861 as compared with the preceding year.

The work of the vaccine physicians, as given in a table annexed, will show that 48,921 calls were made, and 36,491 vaccinations. The vaccine physicians deserve great credit for their promptness in answering the calls of the department, and for their generous attention to the poor.

The members of this Department have all performed their duties well, and are to be congratulated on the manner in which they have deported themselves during the year.

Thanks are due to the Police Department for its assistance in enforcing the laws.

Thanking you for your courtesy and kindness, I am,

Very respectfully yours,

J. TYLER SMITH, M.D.,
Assistant Commissioner of Health.

TABLES.

TABLE.

REPORT OF INSPECTIONS OF NUISANCES MADE AND ORDERED ABATED BY SANITARY INSPECTORS DURING THE YEAR 1899.

Number of alleys to be cleaned	551
" " " repaired	436
" " " paved	142
" Premises to be cleaned	269
" Vacant lots to be drained, filled and cleaned	146
" Manure pits to be constructed	143
" " " reconstructed and repaired	90
" " " cleaned	225
" Drain-pipes to be reconstructed and repaired	111
" " " cleaned	48
" " " laid	2
" Defective plumbing ordered reconstructed and repaired	161
" Yards to be cleaned	332
" " " drained	103
" " " repaired	158
" " " paved	81
" Privies inspected and ordered cleaned	25,655
" " to be reconstructed	321
" " " ventilated	56
" Water-closets to be repaired and ventilated	60
" Excavating apparatus inspected	127
" Cellars to be drained and filled	463
" " " cleaned	146
" Slaughter-houses inspected	433
" Stables to be reconstructed and cleaned	123
" Water-pipes and hydrants to be repaired	108
" Gutters to be repaired	193
" Rain-spouts to be reconstructed	117
" Grass and weeds to be removed from gutters	251
" Ice-ponds examined and permits granted	3
" " " " refused	2
" Tenements ordered cleaned and whitewashed	182
" Samples of water collected for analysis	86
" Causes of death examined	2
" Steamships examined	56
" Mattresses destroyed from steamships	20,009
" Cartloads of refuse, etc., removed from steamships and destroyed	787
" Sweat-shops examined	176
" Complaints examined and no nuisance found to exist	784
" Miscellaneous and extra examinations made	1,434
" Premises disinfected	2,069
" Bacteriological cultures made	4,089
" Schools examined	25

Number of	Meat inspections	9,114
"	Pounds of meat condemned	96,007
"	Inspection of cow stables 897, cows inspected	6,144
"	Bakeries ordered cleaned 78, inspected	1,581
"	Milk inspections made—lots, 34,181; gallons	1,115,134
"	Gallons of milk condemed—lots, 1,076; gallons	5,623
"	Legal proceedings instituted for non-compliance with notices	102

CONTAGIOUS DISEASES INSPECTED.

Number of	Cases of	Diphtheria	1,841
"	"	Scarlatina	444
"	"	Membranous Croup	50
"	"	Whooping cough	117
"	"	Mumps	36
"	"	Chicken pox	196
"	"	Typhoid fever	424
"	"	Varioloid	11
"	"	Ophthal-neon	5
"	"	Measles	563
"	"	Cerebro-spinal meningitis	13
"	"	Phthisis	53

J. TYLER SMITH, M.D.,

Assistant Commissioner of Health.

Wards.	Physicians.	Offices or Residences.	Number of Calls.	Number of Vaccinations.	Primary.	Secondary.	Successful.	Failed.	Not heard from.	Males.	Females.	White.	Colored.	Certificates of Vaccination Given.
1	Chas. S. Neer	619 S. Patterson P'k ave.	1,581	1,984	921	1,063	102	68	1,814	791	1,193	1,855	129	1,476
2	Gustave Goldman	2005 Eastern ave	2,361	1,886	875	1,011	1,010	40	374	941	945	1,615	271	1,127
3	G. C. Thieme	128 S. Broadway	1,570	1,909	1,107	800	720	114	1,073	917	990	1,741	166	1,680
4	M. Savage	6 S. Exeter st	2,038	1,054	332	723	309	22	724	573	482	922	137	608
5	Wm. Clyde Burns	1126 E. Fayette st	2,014	1,406	284	1,122	827	16	563	586	820	950	456	521
6	S. T. Roeder	1904 E. Fayette st	2,588	1,052	526	526	214	11	827	517	535	846	206	1,077
7	Geo. W. Mitchell	913 N. Broadway	3,740	2,526	530	1,420	36	17	2,473	749	1,201	1,737	203	2,251
8	H. G. Beck	829 E. Chase st	2,367	1,476	376	1,100	49	16	1,403	552	924	1,420	56	1,299
9	C. W. Hartwig	111 W. Saratoga st	1,569	570	89	481	368	53	159	245	315	234	336	410
10	Robt. J. Murray	302 N. Fremont st	2,662	1,576	1,075	501	1,218	19	339	786	790	973	603	1,194
11	E. L. Yourex	1230 Druid Hill ave	3,034	2,002	230	1,008	.....	.....	764	770	1,232	664	1,338	741
12	E. C. Bubert	2025 Druid Hill ave	1,916	1,573	288	1,285	176	7	1,390	671	902	754	819	505
13	C. W. McElfresh	834 W. Lombard st	1,700	1,260	300	960	300	.....	960	853	407	1,159	101	563
14	John G. Jeffers	401 N. Carrollton ave	1,161	863	382	481	181	75	607	329	534	738	125	272
15	Chas. F. Pfeffer	48 E. Montgomery st	1,730	1,054	644	200	.....	.....	1,054	324	503	449	395	756
16	Joseph Hart	Fayette and Monroe sts.	1,690	1,679	356	1,323	119	12	1,548	819	860	1,234	445	1,067
17	C. P. Strauss	1606 Light st	4,950	3,745	583	68	146	2	3,607	284	381	586	68	4,497
18	Harry C. Knipp	523 Scott st	2,272	1,787	491	1,296	305	37	1,445	753	1,034	1,493	294	1,214
19	C. C. Richardson	1616 Edmondson ave	1,681	1,946	412	1,534	350	26	1,570	810	1,136	797	1,149	490
20	Geo. C. Shannon	1442 Presstman st	3,635	3,146	572	2,574	53	.....	2,676	1,188	1,958	1,843	1,303	2,513
21	J. Burch Joyce	2526 W. Baltimore st	1,122	847	229	618	62	.....	785	382	465	738	109	326
22	W. S. Carswell	Chas. & Huntingdon ave.	1,540	1,150	709	441	575	165	410	492	658	776	374	467
	Totals		48,921	36,491	11,311	20,535	7,120	700	24,565	14,432	18,465	23,524	9,183	24,555

REPORT OF THE CHEMIST.

REPORT UPON THE CHEMICAL LABORATORY OF THE HEALTH DEPARTMENT FOR THE FISCAL YEAR ENDING DECEMBER 31, 1899.

BALTIMORE, January 2d, 1900.

Dr. C. Hampson Jones, Commissioner of Health:

DEAR SIR—Following I respectfully submit a condensed report of the work performed at the Chemical Laboratory during the year 1899, being the fourth year of its existence.

1.—MILK.

1.—Work Accomplished.

During 1899 the two milk inspectors under the supervision of your chemist examined 34,181 lots of milk (see Table No. 1), aggregating 1,115,134 gallons, and 1,076 lots of milk, with a total of 5,623 gallons, were destroyed.

The figures expressing the total consumption of milk in Baltimore for the year, may be placed between fifteen and twenty million gallons, which means that more than 90 per cent. of the milk consumed escapes examination. In my report for the year 1898 I endeavored to explain how I divided the several districts of the city, and the several depots, in order to get the very best results, as far as the quantity of milk examined is concerned, and I can only repeat that with the present force the limit of what can be accomplished has been reached.

2.—Quality of Milk.

During 1899 1,076 lots of adulterated milk, summing up 5,623 gallons, were condemned and spilled. Since the total milk examinations amounted to 1,115,134 gallons, against

973,023 gallons for the previous year, the percentage of adulterated milk was nearly the same, though somewhat higher than for 1898. In fact, as far as the quality of the average milk offered for sale is concerned, I am sorry to state that the conditions are getting worse every year. I have repeatedly, in former reports, urged the advisability of raising the standard of milk as prescribed by city ordinance, from 12 per cent. total solids and 3 per cent. butter fats, to 14 per cent. total solids and 4 per cent. butter fats. The milk dealers, as well as the shippers of milk, are quite familiar with the lactometer, and by first skimming, and then adding water to the milk, keeping within the provisions of the ordinance, manage to add from 15 per cent. to 20 per cent. of water to the milk. Against this practice your chemist, as well as the milk inspectors, are powerless.

In order to better illustrate how much of a margin is left for the unprincipled shipper to manipulate on. I have during 1899 paid closer attention to establishing the percentage of total solids and butter fat in milk procured through the inspectors from such dairies and shippers whose reputations for selling the pure, unadulterated and unwatered article has never been questioned.

In Table No. 2 you will find in a condensed form 48 analyses, representing the best milk sold in the city of Baltimore, and by glancing over this table you will perceive that by skimming, adding water, and keeping the lactometer handy in some instances, as much as four gallons of milk could be made out of three gallons, and yet the lactometer would show a specific gravity of 1.029, and the milk kept slightly above 12 per cent. total solids and 3 per cent. of butter fat.

3.—Impure and Adulterated Milk.

The conditions here are precisely the same as in former years. The bulk of the milk condemned and spilled was only watered below the legal standard. Besides, the usual amount of milk has been condemned and spilled for other causes:

bloody milk, dirty churned or sour milk, milk sent to market in filthy cans, artificially colored milk, and milk containing preservatives.

As far as the use of preservatives during the hot season is concerned, the several preservatives formerly used have given away almost entirely to the use of formaldehyde (freezine). It requires but a very small amount of this preparation to keep milk for days without souring, and it is often impossible to establish the presence of so small a quantity of formaldehyde (1-2000 of 1 per cent.) by chemical analysis. The artificial coloring of milk with azo dyes, for the purpose of giving it a rich appearance, has not been lost sight of, and offenders against this practice have been promptly checked.

4.—Microscopic and Bacteriological Examination of Milk.

The same routine has been followed during 1899 regarding the microscopic and bacteriological examination of milk as in former years, and it is gratifying to state that quite a number of samples of milk examined for the presence of pus have been found absolutely free from pus cells. During 1898 only two specimens of milk, out of a large number examined, showed the absence of pus. Since pus can only get into the milk from diseased stock, or through filthy conditions during milking or handling the product immediately after milking, the credit of this improvement belongs to the State Board of Health. Quite a number of specimens of milk have been examined for the presence of the bacillus tuberculosis, but with negative results.

5.—Arrests.

Only a few arrests have been made during 1899, and in three instances the parties arrested were found guilty, and paid the fine ($20.00) and costs. In this respect State legislation is absolutely necessary. The dealer getting his supply of milk at the depot, transferring it there and then into his churn, may be caught wanting on the street a few minutes afterwards; the milk in his possession is spilled, and he is

liable, in addition, to be arrested as soon as your Chemist has corroborated by careful chemical analysis the lactometer reading of the inspector. Yet the man may be perfectly innocent, receiving the milk from the shipper in good faith. Since we cannot examine more than 10 per cent. of the milk received at the several depots, to arrest the dealer would be punishing the wrong party. Against the guilty party, the shipper, we have no redress, except to spill his milk at the depot. If the Health Department had the power, through proper legislation, to arrest the shipper, it would facilitate milk inspection not only, but it would be a matter of considerable revenue to the city.

2.—Water.

1.—Quality of Water Supply.

Table No. 3 (condensed) illustrates the condition of our water supply. Since nothing has been done in the line of filtration to change or improve the existing conditions, there is but little to say in this respect, except that in not a single month has the water been free from nitrites; in other words, the presence of intestinal pollution (colon bacillus) seems to be an established factor. What this condition of affairs will lead to, and what we may have to expect in the near future under existing conditions, are questions for your consideration, and do not belong to the province of this report.

2.—Taps, Springs and Wells.

The chemical analysis of water from taps, springs, wells or pumps, has occupied most of the time of your Chemist during 1899. Through the kind offices of the Police Department, a list of 292 pumps, wells and springs, mostly situated within the Northwestern Annex, was furnished us, and out of that number 128 have so far been analyzed. Besides, a number of samples from the several storage reservoirs, Arlington standpipe, Lake Roland, etc., have been examined.

Since this work was done jointly with the bacteriological examination, and since Dr. Stokes will enter more fully upon

the details and importance of this subject, I will only submit as a matter of comparison, and supplementing Dr. Stokes' report, the accompanying table (No. 4), which will explain itself. Two hundred and thirty-five (235) examinations were made during 1899 of samples of water brought to me by the sanitary inspectors from cellars of houses, cess-pools, ponds, etc., to establish the fact whether the samples were contaminated by communication with privy wells, sinks, or from other causes.

3.—Miscellaneous Work.

Among other investigations of a miscellaneous character were the usual samples of meats, fish, candies, flour, cakes and bread; also paints, oils and solder, used by the several city departments. Also articles of food which were supposed to have caused poisonous symptoms.

Your attention was directed during the latter part of the year towards stopping the much practiced habit of artificially coloring sausages and chopped beef, and more than a hundred examinations were made by your Chemist of samples bought in the public market by the Meat Inspector. I can safely say that at the present moment very little, if any, artificially colored sausage or meat will be found in the Baltimore markets.

Thanking you for your courteous treatment, and the valuable assistance accorded me in the performance of my duties, I remain,

Yours very respectfully,

G. W. LEHMANN,

Chemist of the Health Department.

TABLES.

TABLE No. 1.

Total Amount of Milk Examined and Spilled.

1899.	Examined.		Spilled.	
	Lots.	Gallons.	Lots.	Gallons.
January	2,474	89,226	97	486
February	1,825	68,978	43	217
March	3,272	101,413	52	253
April	3,216	98,470	59	291
May	3,365	101,837	52	251
June	3,354	99,336	105	519
July	2,760	88,725	147	759
August	3,011	103,569	106	527
September	2,733	92,855	36	178
October	2,379	78,314	79	388
November	2,874	94,605	117	740
December	2,918	97,806	183	1,014
	34,181	1,115,134	1,076	5,623

TABLE No. 2.

Analyses of 48 Samples of Milk from Railroad Stations on Delivery Wagons Considered Good, Unadulterated Milk.

1899.	Total Solids.	Fat.	1899.	Total Solids.	Fat.
January	13.42	4.16	July	12.28	4.30
"	14.16	4.19	"	12.58	4.08
"	13.84	4.16	"	13.90	5.10
"	13.53	4.06	"	15.66	6.15
February	14.81	4.45	August	12.40	4.06
"	13.91	4.22	"	14.83	5.47
"	14.41	3.59	"	16.12	4.15
"	14.16	4.61	"	14.07	5.07
March	14.34	5.04	September	14.64	4.59
"	14.01	3.92	"	13.49	5.15
"	14.08	5.21	"	13.92	4.57
"	12.14	3.65	"	13.49	5.42
April	15.31	5.45	October	13.80	4.17
"	14.36	3.37	"	12.92	4.10
"	15.18	4.16	"	13.53	4.78
"	14.60	5.07	"	13.12	4.98
May	12.63	4.08	November	15.16	5.07
"	12.71	4.05	"	14.60	4.20
"	13.29	3.88	"	14.91	4.62
"	12.83	4.10	"	13.28	4.09
June	12.67	3.96	December	14.08	3.95
"	13.22	4.17	"	13.41	4.16
"	13.05	6.17	"	14.14	4.36
"	14.10	4.07	"	12.98	3.95

TABLE No. 3.

Monthly Averages, Analyses City Water Supply. Figures expressed in parts per million.

1899.	Volatile Solids.	Mineral Solids.	Total Solids.	Chlorine.	Free Ammonia.	Albumenoid Ammonia.	Nitrates.	Nitrites.
January	53	49	102	4.44	0.03	0.08	0.49	Traces.
February	56	40	96	4.07	0.02	0.09	0.51	Traces.
March	59	43	102	3.19	0.05	0.11	0.26	Traces.
April	70	38	108	4.19	0.03	0.06	0.40	Traces.
May	69	43	112	4.00	0.02	0.07	0.53	Traces.
June	76	30	106	5.30	0.02	0.05	0.62	Traces.
July	61	31	92	4.65	0.04	0.08	0.41	Traces.
August	53	40	93	3.80	0.04	0.08	0.45	Traces.
September	51	43	94	3.14	0.02	0.07	0 64	Traces.
October	50	40	90	3.10	0.03	0.05	0.30	Traces.
November	41	41	82	6.00	0.03	0.05	0.26	Traces.
December	28	52	80	4.15	0.03	0.04	0.08	Traces.

TABLE No. 4.—Water Analyses. Figures Expressed in Parts Per Million.

Chemical Laboratory.

Taps, Streams or Wells.	Date.	Laboratory Number.	Total Solids.	Chlorine.	Free Ammonia.	Albumanoid Ammonia.	Nitrates.	Nitrites.	Conditions.
	1899.								
Pump, Patterson Park	April 4.	270	538	93.50	0.12	0.38	156.20	0.02	Bad.
Pump No. 1, Carroll Park	" 4.	271	252	35.10	0.46	0.62	54.10	0.04	Bad.
Pump No. 2, " "	" 4.	272	278	24.45	0.00	0.08	50.40	0.00	Fairly good.
Pump No. 3, " "	" 4.	273	192	17.52	0.80	0.71	20.40	0.09	Bad.
Pump No. 1116, Winchester st	" 22.	286	10.18	102.50	0.35	0.60	42.16	0.03	Bad.
Pump No. 2503, Eutaw Place	" 22.	287	78	9.45	0.00	0 03	0.05	0.00	Good.
Pump No. 2323, Linden ave	" 22.	288	160	34.40	0 04	0.07	0.70	0.00	Good.
Pump No. 201, W. Monument st	" 25.	290	396	67.55	0.35	0.40	16 50	0.09	Bad.
Pump No. 204, Dolphin st	" 25.	291	608	88.00	2.95	3.08	19.25	0.00	Bad.
Pump No. 2852, Pennsylvania ave	" 25.	280	290	36.10	0.00	0.02	4.60	0.00	Good.
Pump No. 2858, " "	" 25.	281	138	19.20	0.05	0.12	4.16	0.00	Fair.
Pump No. 9, Baker Property	May 10.	282	220	45.10	0.35	0.71	1.15	0.05	Bad.
Pump No. 11, Thomas and North ave	" 10.	284	532	140.65	0.52	0.62	1 75	0.04	Bad.
Pump No. 2826, Lanvale st	" 12.	287	603	62.40	0.02	0.05	18.50	0.03	Bad.
Pump No. 18, Liberty road	" 20.	291	270	23.50	0.00	0.00	0.15	0.00	Good.
Pump No. 19, " "	" 20.	292	326	37.16	0.02	0.04	1.15	0.00	Good.
Pump No. 20, " "	" 20.	293	494	31.40	0.00	0.00	1.25	0.00	Good.
Pump No. 21, " "	" 20.	294	162	6.42	0.00	0.00	0.00	0.00	Very good.
Pump No. 22, " "	" 20.	295	250	16.70	0.00	0.06	1.35	0.00	Good.

TABLE No. 4.—Chemical Laboratory.—Continued.

Taps, Streams or Wells.	Date.	Laboratory Number.	Total Solids.	Chlorine.	Free Ammonia.	Albumenoid Ammonia.	Nitrates.	Nitrites.	Condition.
	1899.								
Pump No. 23, Slingluff ave	June 5.	296	680	18.50	0.00	0.00	0.00	0.00	Good.
Pump No. 25, " "	" 5.	297	620	59.00	1.84	2.16	26.14	0.15	Bad.
Pump No. 26, " "	" 5.	298	290	21.10	0.00	0.00	0.16	0.00	Good.
Pump No. 27, " "	" 5.	299	280	19.50	0.00	0.00	0.10	0.00	Good.
Pump No. 29, " "	" 5.	301	237	18.50	0.00	0.00	0.64	0.00	Good.
Pump No. 32, Windsor ave. & 11th st	June 15.	302	150	44.50	0.00	0.00	0.00	0.00	Good.
Pump No. 33, Liberty road	" 15.	303	92	43.50	0.00	0.00	0.00	0.00	Good.
Pump No. 34, Beach ave	" 15.	304	154	44.50	0.00	0.00	0.00	0.00	Good.
Pump No. 35, 10th st	" 15.	305	164	44.50	0.00	0.00	0.00	0.00	Good.
Pump No. 36, Beach ave	" 15.	306	136	41.00	0.00	0.00	0.00	0.00	Good.
Pump No. 2517, Pennsylvania ave	June 17.	307	746	167.50	1.28	2.06	65.20	0.14	Bad.
Pump No. 2651, " "	" 17.	308	10.54	327.50	2.16	1.46	68.40	0.00	Bad.
Pump No. 2659, " "	" 17.	309	896	208.50	2.38	2.14	42.10	0.02	.....
Pump Cor. Penna. ave. & Clifton st.	" 17.	310	730	230.00	0.42	0 31	49.20	20.06	Bad.
Pump No. 1577, Clifton st	" 17.	311	570	240.50	0.62	0.90	71.16	0.07	Bad.
City Laboratory Tap	June 18.	312	106	5.30	0.02	0.05	0.62	0.00	.....
Bull Mansion	" 18.	313	274	50.51	0.04	0 07	0.78	0.00	Fair.
Pump, Pulaski st. and Liberty road	June 30.	314	550	110.00	0.00	0.06	21.50	0.00	Suspicious.
Pump, Cor. Penna. and Fulton aves.	" 30.	315	600	161.50	0.15	0.27	28.00	0.07	Bad.
Pump No. 201, Bloomingdale ave	" 30.	316	630	112.50	0.04	0.03	35.10	0.00	Suspicious.
Pump No. 701, " "	" 30.	317	370	116.40	0.02	0.03	30.20	0.00	Suspicious.
Pump, Butcher's lane	" 30.	318	552	162.00	0.35	0.67	35.50	0.03	Bad.

Pump, Slingluff ave	July	6	319	300	22.00	0.00	0.00	0.21	0.00	Good.
Pump, " "	"	6.	320	184	14.20	0.00	0.00	0.10	0.00	Good.
Pump, St. Peter's Cemetery	"	6.	321	510	90.40	0.10	0.19	0.13	0.02	Bad.
Pump, Liberty road	"	6.	322	150	16.40	0.00	0.02	0.05	0.00	Good.
Pump, " "	"	6.	323	786	207.50	0.08	0.16	30.40	0.00	Bad.
Pump No. 2858, Pennsylvania ave	July	27.	324	506	19.60	0.03	0.08	0.20	0.01	Bad.
Pump No. 2824, " "	"	27.	325	600.00	96.14	0.05	0.09	5.30	0.10	Bad.
Pump, Elgin ave	"	27.	326	384	23.50	0.02	3.95	3.15	0.00	Bad.
Pump, " "	"	27.	327	270	6.50	0.00	0.00	1.13	0.00	Good.
Pump, " "	"	27.	328	548	91.50	0.00	0.00	0.00	0.00	Good.
Well, West Arlington	July	27.	329	192	20.16	0.05	0.08	0.15	0.00	Fair.
Spring, Edmondson ave	"	27.	330	205	6.85	0.00	0.00	0.00	0.00	Good.
Pump, Hermitage, G. H	Aug.	11.	331	280	22.10	0.00	0.00	0.05	0.00	Good.
Spring, Hermitage, M. H	"	11.	332	220	11.25	0.00	0.00	0.08	0.00	Good.
Spring, Evergreen	"	11.	333	244	9.60	0.00	0.00	0.15	0.00	Good.
Pump, Poplar Hill	"	11.	334	420	71.40	0.04	0.06	0.40	0.00	Bad.
Spring No. 2715, W. North ave	"	12.	335	270	16.50	0.00	0.00	0.00	0.00	Good.
No. 71, Thomas Weeks	"	11.	336	120	6.00	0.15	0.33	1.55	0.00	Bad.
No. 72, G. G. Armour	"	11.	337	130	5.20	0.20	0.40	2.18	0.00	Bad.
No. 73, W. H. Diffenderfer	"	11.	338	124	7.00	0.18	0.40	1 00	0.00	Bad.
No. 74, W. Arlington, S. P	"	11.	339	90	4.20	0.20	0.16	0.55	0.00	Bad.
H. water, No. 280, W. Baltimore st	Aug.	19.	340	124	7.00	0.43	0 87	0.00	0.00	Bad.
S. P., Arlington Tap	"	19.	341	120	5.16	0.00	0.00	0.00	0.00	Good.
Western Pump House	"	19.	342	110	5.10	0.02	0.00	0.00	0.00	Good.
High Service, D. H. P	"	19.	343	108	4.95	0.00	0.00	0.00	0.00	Good.
Druid Hill Lake	"	19.	344	114	5.40	0.00	0.00	0.00	0.00	Good.
S. P., Arlington Bottom	"	19.	345	118	5.92	0.05	0.11	0.65	0.00	Bad.
Lake Roland, Towson Br	"	19.	346	152	9.08	0.02	0.07	0.10	0.00	Fair.
Jones' Falls, G. S. Bridge	"	19.	347	105	7.10	0.00	0.00	0.00	0.00	Good.
Pump House, L. R	"	19.	348	144	6.40	0.10	0.05	0.80	0.00	Bad.
Br., from Lake Side, L. R	"	19.	349	83	8.05	0.00	0.00	0 40	0.00	Good.
Conduit Gate House, L. R	"	19.	350	159	7.00	0.15	0.18	1.15	0.00	Bad.

TABLE No. 4—Continued.

Taps, Streams or Wells	Date.	Laboratory Number.	Total Solids.	Chlorine.	Free Ammonia.	Albumanoid Ammonia.	Nitrates.	Nitrites.	Conditions.
Middle Lake Roland	Aug. 19.	351	214	6.14	0.35	0.20	1.16	0 00	Bad.
Pump, 31st st. and Remington ave	Aug. 22.	352	.....	40.16	0.45	0.87	0.05	trace	Bad.
Cottage ave., Warfield	Aug. 29.	353	100	11.06	0.00	0.00	0.14	0.00	Good.
Pump No. 722, York road	Sept. 5.	354	194	10.65	0.00	0.00	0.13	0.00	Good.
Pump No. 3210, Cedar ave	Sept. 14.	355	940	151.10	1.15	0 57	0 19	0.05	Bad.
Pump No. 3441, Chestnut ave	" 14.	356	374	68.10	0.00	0 00	0.10	0.00	Fair.
City Water Lab. Tap	Sept. 25	357	90	3.14	0 02	0.07	0.04	0.00	Fair.
Pump, 1st T. G., Liberty road	Oct. 31.	358	756	94.50	0.05	0.09	0.11	0.09	Bad.
Pump, 9th and Pressbury sts	" 31.	359	149	5.10	0 02	0.05	0.00	0.00	Good.
Pump, Clifton ave. ext	" 31.	360	120	9.16	trace	0.07	0.09	traces	Suspicious.
Pump, North ave and 11th st	" 31.	361	270	30.60	0.00	0.00	0 00	0.00	Good.
Hydrant No. 1223, E. North ave	Nov. 29.	362	84	6.15	0.00	0.04	0.12	trace	.....
Hyrdrant, Park ave	" 29.	363	80	4.29	0.00	0.00	0.09	trace	.....
Pump, Riggs ave ext	" 29.	364	344	32.18	0.00	0.05	0.15	trace	Suspicious.
Pump, " "	" 29.	365	810	75.10	0.00	0.15	0.65	0.05	Bad.
Pump, " "	" 29.	366	806	213.50	0.14	0.26	0.25	0.04	Bad.
Pump, " "	" 29.	367	390	67.75	0.00	0.00	0.05	0.00	Fair.
Pump, " "	" 29.	368	450	93.75	0.00	0.00	0.18	0.00	Suspicious.
Pump, " "	" 29.	369	120	16.00	0.00	0.00	0.05	0.00	Good.
Lab. Tap, City Water	Dec. 5.	370	103	3.82	0.02	0.05	0.14	traces	Bad.

REPORT

—UPON THE—

BACTERIOLOGICAL LABORATORY.

REPORT UPON THE BACTERIOLOGICAL LABORATORY FOR THE YEAR ENDING DECEMBER 31, 1899.

BALTIMORE, January 2, 1900.

C. Hampson Jones, M.D., Commissioner of Health:

DEAR SIR: I hereby respectfully submit my report upon the Bacteriological Laboratory of the Health Department of Baltimore for the year ending December 31, 1899.

BACTERIOLOGICAL EXAMINATION OF THE WATER SUPPLY

The general plan pursued has consisted in the routine examination of the water from the laboratory tap in order to estimate the number of bacteria present in one cubic centimeter of water. The plates were made in glycerine-agar prepared according to Fuller's directions, and the colonies were counted with a small land lens and the Lafar counter.

GENERAL WATER SUPPLY.

A certain number of examinations have been made in order to secure information concerning the general water supply. For this purpose specimens have been collected from the laboratory tap, various wells throughout the city, and a number of streams on the water-shed. The public pumps of the city were also examined, and those found unfit for use were condemned. In all of these samples the number of bacteria in one cubic centimeter (15 drops) was first determined, and the various tests for the detection of the colon or intestinal bacillus was then carried out.

Table No. 1 will show the complete bacteriological examinations of water made during the year 1899:

TABLE No. 1.

Tap, Stream or Well.	Laboratory No.	Date of Examination.	Colonies per c. c.	Colon Bacillus Present.	Condition.
Laboratory Tap	270	April 4.	186	None in 1-50 c. cs.	Good.
Pump 1, Carroll Park	271	" 4.	1,458	" 1 c. c.	Bad.
" 2, "	272	" 4.	253	" "	Good.
" 3, "	273	" 4.	10,080	Present in 1 c. c.	Very bad.
" in yard of 1116 Winchester street	274	" 22.	942	" 5 c. cs.	Bad.
" " " 2503 Eutaw Place	275	" 22.	32	None in 1 or 5 c. cs.	Good.
" at 2323 Linden avenue	276	" 22.	7	" "	Good.
" N. W. Cor. Preston street and Druid Hill avenue	277	" 22.	Out of use.	Condemned.	.....
" rear of 201 W. Monument street	278	" 25.	63	None in 1 c. c.	Good.
" 204 Dolphin street	279	" 25.	13	" "	Good.
" at 2852 Pennsylvania avenue	280	" 25.	780	" "	Fair.
" 2858 Pennsylvania avenue	281	" 25.	444	Present in 1 c. c.	Bad.
" Baker property, Liberty road and Baker street	282	May 10.	.....	None in 5 or 50 c. cs.	Good.
" 2600 W. North avenue	283	" 10.	Out of use.	Condemned.	.....
" Cor. Thomas and North avenue	284	" 10.	.....	None in 5 or 50 c. cs.	Good.
" on Second street near North ave	285	" 10.	Out of use.	Condemned.	.....
" 2810 W. Lanvale street	286	" 12.	" "	"	.....
" 2826 Lanvale street	287	" 12.	600	None in 50 c. cs.	Fair.
" 2847 " "	288	" 12.	Out of use.	Condemned.	.....
" 2466 Druid Hill avenue	289	" 12.	" "	"	.....
" 2470 " " "	290	" 12.	" "	"	.....
" H. J. Waters, Liberty road and tollgate	291	" 20.	708	None in 1 or 50 c. cs.	Good.
" Geo. Long, Liberty road and tollgate	292	" 20.	130	" "	Good.

"	H. Kinstler, Liberty road, near tollgate	293	May	20.	118	None in 1 or 50 c.cs. Good.
"	Jas. Doyle, Liberty road near tollgate	294	"	20.	990	" " Good.
"	P. Donuhue, Liberty road, near Slingluff avenue	295	"	20.	372	Present in 1 c. c. Bad.
"	C. Keppler, Slingluff avenue, near Liberty road	296	June	5.	13,500	" " Bad.
"	P. Donohue, Slingluff avenue, near Liberty road	297	"	5.	2,070	" " Bad.
"	Mr. Albert, Slingluff avenue near Liberty road	298	"	5.	93	" " Bad.
"	H. J. Waters, Slingluff avenue, near Liberty road	299	"	5.	324	" " Bad.
"	J. Woods, Slingluff near North avenue	300	"	5.	Pump dry, out of use.	....
"	G. Long, Slingluff near North avenue	301	"	5.	1,560	Present in 1 c. c. Bad.
"	Windsor avenue and Eleventh street, "Highlands."	302	"	15.	100	None in 1 c. c. Good.
"	Chas. Shipley, Liberty road and Beach avenue	303	"	15.	29	" " Good.
"	Chas. Shipley, Beach avenue, near Liberty road	304	"	15.	213	" " Good.
"	Mrs. Brausnell, Tenth street, near Beach avenue	305	"	15.	20	" " Good.
"	Epiphany Cottage, Beach avenue, near Eighth street	306	"	15.	84	" " Good.
"	2517 Pennsylvania avenue	307	"	17.	262	" 50 c. c. Fair.
"	2651 " "	308	"	17.	24	" " Fair.
"	2659 " "	309	"	17.	21	" " Fair.
"	Cor. Pennsylvania avenue and Clifton street	310	June	17.	11	" " Fair.
"	1577 Clifton street	311	"	17.	100	" " Fair.

TABLE No. 1—Continued.

Tap, Stream or Well.	Laboratory No.	Date of Examination.	Colonies per c. c.	Colon Bacillus Present.	Condition.
City, at Laboratory tap	312	June 18.	145	None in 1-50 c. cs.	Good.
Water from Bull mansion	313	" 20.	318	" 1 c. c.	Good.
Pump, Pulaski street, near Liberty road	314	" 30.	65	" "	Good.
" Pennsylvania and Fulton avenues.	315	" 30.	15	" "	Suspicious.
" 201 Bloomingdale avenue	316	" 30.	200	" "	Good.
" 761 Bloomingdale road	317	" 30.	7,420	" "	Bad.
" Butchers' lane, between Pennsylvania and North avenues	318	" 30.	58	" "	Good.
" M. Albert, Slingluff avenue, near Liberty road	319	July 6.	474	Present in 1 c. c.	Bad.
" H. J. Walters, Slingluff avenue, near Liberty road	320	" 6.	162	" "	Bad.
" St. Peter's Cemetery	321	" 6.	190	None in 50 c. cs.	Good.
" Hamilton Easter's estate, Liberty road	322	" 6.	30	Present in 50 c. cs.	Bad.
" Mr. Ridgely, Liberty road	323	" 6.	91	" "	Bad.
" 2858 Pennsylvania avenue	324	" 27.	268	" 1 c. c.	Bad.
" 2854 " "	325	" 27.	18	None in 1 or 5 c. c.	Good.
" "Elgin," Elgin avenue	326	" 27.	1,326	Present in 5 c. c.	Bad.
Spring, "Elgin," Elgin avenue	327	" 27.	2,160	None in 1 or 5 c. c.	Bad.
Pump, Mr. Dennis, Elgin avenue	328	" 27.	58	" 1 c. c.	Good.
Well, Ridgewood and Grenada avenues, Mr. Reid, Mt. Washington	329	July 27.	44	Present in c. c.	Bad.
Spring, Edmondson avenue, near Potomac R. R	330	" "	53	None in 1-50 c. c.	Good.
Pump, Hermitage, Gardiner House	331	August 11.	See Chem. Report.		

Spring, Hermitage, Mansion House	332	August 11.	See Chem. Report.		
" "Evergreen"	333	" 11.	See Chem. Report.		
Pump, Poplar Hill	334	" 11.	See Chem. Report.		
Spring, 2715 W. North ave., H. T. Halstead	335	" 11.	30	None in 1 or 50 c. c.	Good.
Thos. Weeks, residence	336	" 11.	113	" "	Good.
G. G. Armour, Ridgewood avenue	337	" 11.	3	Present in 50 c. c.	Bad.
W. H. Diffenderfer, residence. (Office, U. R. R. Co.)	338	" 11.	9,360	None in 1 or 50 c. c.	Bad.
Stand Pipe, West Arlington	339	" 11.	4,800	Present in 50 c. c.	Bad.
Hydrant water, 280 W. Baltimore street	340	" 19.	See Chem. Report.		
Stand Pipe, Arlington Tap	341	" 19.	3,900	Present in 1 c. c.	Bad.
Western Pump House, into Druid Hill Tap, to stand pipe	342	" 19.	165	None in 1-50 c. c.	Good.
High Service, Druid Hill Park	343	" 19.	222	None in 1 or 50 c. c.	Good.
Druid Hill Lake, taken from lake	344	" 19.	414	Present in 50 c. c.	Bad.
Stand Pipe, bottom	345	" 19.	117	None in 1 or 50 c. c.	Good.
Towson Branch, Lake Roland	346	" 19.	931	Present in 50 c. c.	Bad.
Jones' Falls, Green Spring Bridge	347	" 19.	268	Present in 50 c. c.	Bad.
Pump house, Lake Roland	348	" 19.	1,740	Present in 1 c. c.	Bad.
Branch from Lakeside, Lake Roland	349	" 19.	3,660	None in 1 c c.	Bad.
Waste from conduit, Gate House, Lake Roland	350	" 19.	20,400	Present in 50 c. c.	Bad.
Middle of Lake Roland, 100 yards from the dredge	351	" 19.	3,180	None in 1-50 c. c.	Bad.
	352	See Chem. Report.			
Cottage avenue, Warfield	353	August 29.	114	None in 1 or 50 c. c.	Good.
Pump, 722 York road	354	Sept. 5.	2,460	Present in 1 c. c.	Bad.
" 3210 Cedar avenue	355	" 14.	34	None in 1 or 50 c. c.	Good.

TABLE No. 1—Concluded.

Tap, Stream or Well.	Laboratory No.	Date of Examination.	Colonies per c. c.	Colon Bacillus Present.	Condition.
Pump, 3441 Chestnut avenue	356	Sept. 14.	738	None in 1 or 50 c. cs.	.....
City water, laboratory tap	357	" 25.	83	None in 1 c. c	Good.
Pump, First Toll Gate, Liberty road	358	October 31.	396	Present in 50 c. c.	Bad.
" T. J. Brown, Ninth and Pressbury streets	359	" 31.	4,320	" "	Bad.
Pump, Mrs. Jas. Carey, Clifton ave. ext.	360	" 31.	322	None in 50 c. c.	Good.
" Francis White, North avenue and Twelfth street	361	" 31.	288	Present in 50 c. c.	Suspicious.
Hydrant tap, 1223 E. North avenue	362	Nov. 29.	.....	.....	.....
" " Park avenue	363	" 29.	See Chem. Report.	.....	.....
Pump, Mr. Fox, Riggs avenue	364	" 29.	282	Present in 50 c. cs.	Bad.
" Mr. J. Doyle, Riggs avenue	365	" 29.	894	" "	Bad.
" Chas. Hoffman, Riggs avenue	366	" 29.	124	None in 50 c. cs.	Good.
" Jas. Cross, Riggs avenue	367	" 29.	138	Present in 50 c. cs.	Bad.
" Bruce Hoffman, Riggs avenue	368	" 29.	104	See Chem. Report.	.....
" Wm. E. Turner	369	" 29.	82	None in 50 c. cs.	Good.
City water, laboratory tap	370	Dec. 5.	796	Present in 50 c. c.	Bad.

From the foregoing table it will be seen that the yearly average of bacteria from 1 c. c. in the drinking water for 1899 was 327.2. These figures are derived from a rather small number of examinations, since the streams and pumps were the principal sources of investigation. Out of 76 pumps within the city limits which were examined bacteriologically, only 34 were pronounced good. In 19 cases the bacteriological examination failed to show any evidence of bacterial pollution, but the chemical report showed evidence of chemical pollution. Deducting this number from the 34 pumps pronounced good from a bacteriological standpoint, we have only 15 pumps out of 76 examined by the bacteriologist which would appear to be fit for use by the public.

This shows that water should always be examined by a chemist as well as a bacteriologist, as pollution which one has failed to demonstrate may be found by the other. Fourteen pumps which the chemist found good were pronounced bad from a bacteriological standpoint.

On August 11th, 1899, an investigation concerning the condition of the local supply at Arlington was ordered by the Commissioner of Health. It was found that the Arlington stand-pipe contained 4,800 bacteria to the cubic centimeter, and the colon or intestinal bacillus was found in 50 cubic centimeters of water (see Table No. 339). In No. 337 the intestinal bacillus was found in 50 c. c., and in No. 338 the number of bacteria in one c. c. amounted to 9,360. Both of of these specimens were taken by request from the houses of citizens of Arlington.

On August 19th, 1899, the same stand-pipe contained 3,900 bacteria per cubic centimeter, and the colon bacillus was found in one cubic centimeter (see No. 341).

The intestinal bacillus was also found at this time in Druid Hill Lake (see No. 344). It was thought at this time that the increase in the bacteria was due to the fact that the entire supply in the stand-pipe was not exhausted with enough regularity, and that the stagnation which occurred gave the bacteria a better chance to multiply.

On December 5th, 1899, a slight increase in the number of bacteria was observed in examining the supply from the city laboratory tap, and the colon or intestinal bacillus was found in 50 c. c. of water (see No. 370). This fact can easily be accounted for when the numerous pollutions which contaminate the water-shed are considered. These are perfectly evident to inspectors, and the numerous examinations which have been made in the last three years have simply confirmed their statements. The practice of obtaining drinking water from a large unprotected surface river probably causes a large percentage of the cases of typhoid fever in our city, and a proper method for the purification of the entire supply should be carefully considered. Although the enforced removal of apparent nuisances will lessen the risk of water-born diseases, a great many cities, both here and abroad, use in addition a well-tested system of filtration for this purpose, and thereby greatly reduce the prevalence of typhoid fever.

DIPHTHERIA.

Although the number of cases of suspected diphtheria examined for physicians is not as large as last year, yet over 2,000 cases were tested. The table which follows will also show the very large number of persons examined by the inspector of throats. This work is of great importance, as 199 children were found in infected houses whose throats still contained diphtheria germs capable of infecting other healthy children. The large number of negative cases (3,441) obtained by the inspector, of course, bears out the work of many others, who have shown that the diphtheria bacillus is not found as a normal inhabitant of the throat. These positive cases are not allowed to return to school, and the house is not disinfected until the throats are free from the germs of diphtheria.

Four thousand and sixty-eight school children were examined, especially selected from well-known infected districts, and 157 children were found whose throats contained the

germs of diphtheria, These cases were often hard to race out further, but several of these children who were not immunized later developed severe attacks of diphtheria; and one girl, who never developed the disease, probably communicated it to her smaller sister, who later developed clinical diphtheria. These facts emphasize the importance of examining the throats of school children, especially in infected districts, where a large proportion of the cases can be traced to certain schools.

The following stations have been established for the convenience of the physicians throughout the city, where they can secure culture tubes for diphtheria, and the typhoid fever and and tuberculosis blanks and directions. The bacteriologist would respectfully request that the application blanks for antitoxin be also placed at these stations, and that a printed list of these stations be sent to all the physicians:

Name.	*Address.*	*Ward.*
Stauff & Foster	Hanover and Hill streets	1
Stauff & Foster	Fremont and Barre streets	1
Hynson & Westcott	Charles and Franklin streets	2
J. P. Frames & Sons	Aisquith and Gay streets	3
George J. Way & Bro	1645 E. Baltimore street	4
Wolfe Brothers	439 S. Chester street	6
E. J. & R. B. Laroque	2040 E. Pratt street	5
David R. Millard	2000 E. Baltimore street	7
J. E. Krantz	Broadway and Chase street	8
J. I. Kelly	Broadway and Federal street	9
S. H. Merritt	Valley and Chase streets	10
Charles Morgan	1300 N. Caroline street	11
R. Frank Waters	Aisquith street and North avenue	11
E. C. Livingston	3102 York road	12
Loy & Co	900 N. Charles street	13
Charles L. Meyer	1531 Madison avenue	15
Edward C. Esslinger	2801 Woodbrook avenue	16
Walbrook Pharmacy	W. North avenue and Tenth street	17
J. A. Davis	700 N. Carey street	18
R. H. Councell	839 N. Fulton avenue	18
Charles H. Knight	2120 W. Pratt street	19
Frank M. Blaney	Pratt and Gilmor streets	20
Parr Brothers	1001 Edmondson avenue	21

Name.	*Address.*	*Ward.*
Roe & Smith	Columbia avenue and Scott street	22
Harry F. Vogel	Charles and Clement streets	23
Otto B. Heinze	Hull and Cuba streets	24
Quandt Brothers	124 S. Howard streets	2
William Dawson	Druid Hill avenue, corner Biddle	14
C. Arendt	Hudson and Canton streets	6
William Fouch	1 W. North avenue	12

DISINFECTION.

Formaldehyde gas has been used by the Department in order to cause a surface disinfection of rooms in which diphtheria, scarlet fever, and other communicable diseases existed. The gas is rapidly evaporated from a forty (40) per cent. solution called formalin, by means of the apparatus of the Sanitary Construction Company. The apparatus is allowed to run thirty minutes for 1,000 cubic feet of air space in the room.

TABLE No. 2.

Examinations of Specimens to Determine the Presence of Disease.

Diphtheria, positive cultures	637
" negative "	1,565
Diphtheria, total cultures	2,202
Diphtheria, positive cultures of "school children's" throats	157
" negative " " " "	3,911
Diphtheria, total cultures of "school children's" throats	4,068
Diphtheria, positive cultures, examined by "throat inspectors"	199
Diphtheria, negative cultures, examined by "throat inspectors"	3,441
Diphtheria, total cultures, examined by "throat inspectors"	3,650
Tuberculosis, positive results	279
" negative "	455
" suspicious "	5
Tuberculosis, total results	739
Typhoid fever, positive reactions	187
" " negative "	277
" " suspicious "	16
Typhoid fever, total reactions	480
Units of antitoxin administered to indigent cases	2,238,000
Cases treated with antitoxin by Health Department	1,294
Complete examinations of drinking water	100

TABLE No. 3.

Cases of Diphtheria Treated with Antitoxin Furnished by the Health Department from January 1, 1899, to December 31, 1899.

Cases.	Deaths.	Mortality.	Extent of Membrane.			Complications.						Diphtheria Bacilli Found.
			Tonsils.	Tonsils and Pharynx.	Nose.	Larynx.	Broncho-Pneumonia	Nephritis.	Sepsis.	Paralysis.	Cardiac Paralysis.	
311	33	9.96 per cent.	147	128	40	44	3	9	8	5	16	210 cases.

Cases in which diphtheria bacilli were found	210	Deaths among laryngeal cases	14
Deaths among above cases	19	Percentage of mortality	31.84
Percentage of mortality in above cases	9.00	Cases immunized	336
Cases of laryngeal diphtheria	44	Cases immunized developing diphtheria	1

Mortality after Antitoxin, According to the Day of Disease.

	Cases.	*Died.*	*Percentage of Mortality.*		*Cases.*	*Died.*	*Percentage of Mortality.*
Antitoxin given on 1st day.	93	7	7.52	Antitoxin given on 5th day.	9	1	11.
" " 2d "	106	7	6.60	" " 6th "	6	2	33.
" " 3d "	49	4	6.12	" " 7th "	7	3	42.85
" " 4th "	27	9	.33⅓	" " 8th "	1	0	.....

Mortality of cases not treated by antitoxin (Welch) ..... 42.1 per cent.
" from diphtheria in Baltimore in 1896 ..... 51.87 "

THE USE OF ANTITOXIN IN THE TREATMENT OF DIPHTHERIA.

The Department has continued to distribute free antitoxin to indigent cases of dyphtheria, and in certain cases where the disease bid fair to spread the rest of the children in the house have been immunized. One thousand (1,000) units are used for immunizing, and 2,000 units for treatment, but in severe cases 2,000 units can be used every twelve to twenty-four hours until decided improvement takes place.

The physician in order to secure antitoxin must fill out the following blank :

Form 1235 D

APPLICATION BLANK.

BALTIMORE, ... 19

No. .....

Commissioner of Health:

Dear Sir:

I hereby make application for ..... *Units of Antitoxin, for use in the case of diphtheria, of* .... *residing at* ..... *who is unable to pay for same.*

..... *M.D.*

APPLICANT.

Please return this application blank, properly filled out, at once, and the clinical blank as soon as the required information can be given.

The physician is also given a clinical blank to fill out, and he is expected to return the data requested below, in order that we can gain some idea of the results obtained from the use of antitoxin:

CLINICAL BLANK.

No. ..... *Date*.....*1*.....

Phys.: Name.....*Add*.....
Patient: Name.....*Age*,.....*Add*.....
Antitoxin make,.....*Units injected*,.....
Duration of disease at time of injection,.....
Location and Extent of Exudate or Pseudo-Membrane.....
.....
Result of Culture,.....
Case Intubated?.....*Tracheotomized?*.....
Case Recovered?.....*Died? (Day of Disease)*.....
Complications (Skin, Heart, Kidneys, Nervous System, etc).....
.....
Remarks,.....
.....
.....
Cases Immunized: No.....*Result (after six weeks)*.....
Signed, ...

Please return this blank as soon as the above information can be furnished.

The table on the opposite page (Table No. 3) shows in 331 cases which were considered diphtheria by the physicians, that only 33 died; a mortality of 9.96 per cent. This is a decrease when compared with last year, when the mortality in these cases was 12.14 per cent. In 210 of these cases the bacillus of diphtheria was found, and only 19 died—a mortality of 9 per cent. The mortality in these cases last year was 10.41 per cent. Out of 44 cases of laryngeal diphtheria only 14 died—a mortality of 31.84. This is a very good showing, when one considers the fact that before the days of antitoxin laryngeal diphtheria was considered almost necessarily fatal.

The 336 cases which were immunized only show one case which subsequently developed diphtheria, and as these children were all from infected houses, it is reasonable to suppose that a small number would have developed diphtheria, and even spread the disease, had they not been immunized by means of antitoxin. The latter half of the table

shows the importance of giving antitoxin at the earliest possible moment, as the mortality becomes greater as its administration is delayed.

In observing these statistics it is to be remembered that previous to the use of antitoxin the general mortality in diphtheria was about 45 per cent. The carelessness of many physicians in returning their antitoxin blanks has rendered it very difficult to collect more accurate statistics. Those who did not return their blanks as requested were sent duplicate copies several times during the year, but even then we were only able to collect returns from about fifty per cent. of the cases.

Respectfully submitted,

WM. ROYAL STOKES, M.D.,

Bacteriologist to Health Department.

NOTE.—On October the 9th an autopsy was performed at quarantine by Dr. N. G. Kierle, and the case was pronounced yellow fever. The tissues were studied microscopically, and cultures were made from the various organs. A detailed account of the case will be published later.

REPORT

—OF THE—

Quarantine Hospital of the Port of Baltimore.

REPORT.

QUARANTINE HOSPITAL,

PORT OF BALTIMORE, January 1, 1900.

To the Honorable the Mayor and City Council of Baltimore:

GENTLEMEN—I have the honor to herewith submit the report of the Quarantine Hospital for the year ending December 31st, 1899.

The past year has been a very busy one, owing to the steadily increasing commerce of the port.

During the year eleven hundred and fifty vessels were boarded and inspected (see Table 1), and from these vessels we collected and paid into the City Treasury the sum of nineteen thousand and seventeen dollars and six cents ($19,017.06). (See Table 2).

During the year seven vessels were detained at Quarantine, either for disinfection or observation. (See Table 3).

Thirty-nine patients were treated in the Hospital during the year. (See Table 4). Of these seventeen were sent from the city by the Commissioner of Health, eighteen were sent by the Maryland Steel Company, from Steelton, and four were taken from vessels. All the patients together make a total of nine hundred hospital days.

All the patients treated at the Hospital recovered, except one. The corpse of the one who died was interred in the Hospital Burying Ground.

The cost of maintaining the Quarantine Station for the year was for salaries, eleven thousand nine hundred and sixty-five dollars, and for general expense ten thousand dollars, making a total of twenty-one thousand nine hundred and sixty-five dollars.

Thanks are due to Major Hutton, of the Harbor Board, for repairs to the wharf, and to Mr. Everett J. Dowell for repairs to the various buildings, and especially to the attention paid by him to the matter of heating the Hospital Building.

During the year a number of improvements have been made at a very small cost, the labor being largely done by the employees of the place.

The disinfecting plant has been thoroughly overhauled and painted within and without. The steam air-pump which was formerly used to obtain a vacuum in the disinfecting chamber, has been replaced by a steam exhauster. With the air-pump it was impossible to obtain the required vacuum even after running it at the highest rate of speed for half an hour. With the steam exhauster fifteen inches of vacuum can be easily gotten in two minutes.

Experiments made with the bacillus of anthrax, bacillus megatherium and bacillus subtilis, all spore-bearing organism of the highest resistance, show that the apparatus is now in perfect order. All the above-mentioned germs with their spores being killed in ten minutes' exposure in the chamber with ten pounds pressure and a temperature of 240 F.

The interior of the employees' building was painted throughout, the walls whitewashed and a broken drain put in order.

The Hospital Building was painted throughout the interior. Most of the wood work had never been finished, and the floors were unfinished and very absorbent. The floors were puttied and finished with liquid granite, making them impervious to water and not capable of retaining any infectious material.

The wornout steam heating apparatus was replaced by stoves in each of the wards. Under existing conditions this is a much more economical and efficient method of heating the building.

The wooden furniture was replaced by non-absorbent hospital furniture, as far as was possible with the means at hand. All the beds are now of iron, and the bedside tables in the wards are of iron and glass.

A case with the most needed chemical reagents was placed in the Hospital for use in clinical diagnosis. It still needs many articles for the thorough investigation of disease, but the most necessary part has been supplied.

The plumbing of the Hospital Building was put in good order throughout.

Small three-gallon fire extinguishers have been placed in the four largest buildings as a further protection against fire.

Owing to the Station having but one boat, the marketing has been done by wagon. For this purpose a suitable wagon and a team of draught horses were purchased.

The buildings have all been put in communication by a recently erected telephone system. This greatly facilitates the work of the Station.

The Board of Estimates supplied a special appropriation for the repair of the Quarantine tug "Hygeia." This was done during the summer. The hull, boiler and engine were overhauled and put in as good a condition as the age of them would permit. The hull of the boat is in a very questionable condition, and will not last for many years longer, unless another boat is furnished to lessen the strain of the work now done by this one boat.

There are a number of suggestions as to the needs of the Quarantine and its improvement, which are but a repetition of those of last year. One of the suggestions of last year was acted on by the Board of Estimates, *i. e.*, that of providing the Station with an adequate water supply.

The following suggestions are regarded to be of the greatest importance:

1. The purchase of a boat of sufficient size to withstand the seas and ice of the lower river, and fitted with modern disinfecting apparatus, viz., a steam chamber, a bichloride tank and pump and a sulphur furnace. The United States Quarantine Regulations require these at all stations where vessels are disinfected. Thorough disinfection cannot be accomplished quickly without them, and the business of the Quarantine Station cannot be carried on satisfactorily without two boats.

2. The erection of modern hospital buildings on the pavilion plan capable of complete disinfection, so as not to subject a patient suffering with one contagious disease of the danger of contracting another. The present accommodations, viewed in the light of our knowledge of infectious diseases, are scarcely short of criminal in a city the size of Baltimore.

3. The erection of barracks for the detention of suspects. This would allow vessels held at the Quarantine to dock immediately on the completion of disinfection. With our present equipment it is necessary to hold the vessels until the period of incubation of the disease for which they are held is past. This is an avoidable delay if the proper equipment was at hand. In case of the erection of new hospital buildings, the present building could be used for barracks.

4. There should be a properly equipped laboratory for the purposes of diagnosing and investigating disease. A small detached building for this purpose could be erected and equipped at a comparatively small cost.

In conclusion, I beg leave to return my sincere thanks to Dr. Melvin S. Rosenthal for his intelligent assistance, and to say that the employees have performed their duties in an entirely satisfactory manner.

Very respectfully,

JOHN RUHRÄH, M.D.,

Quarantine Physician.

TABLES.

TABLE No. 1.

Showing the Number and Class of Vessels Boarded and Inspected at the Quarantine for the Year Ending December 31, 1899.

Months.	Class of Vessels.											
	Steamships.	Ships.	Barks.	Barkentines.	Schooners.	Steam Bark.	Brig.	Yachts.	Towing Steamer.	Light Ship.	Barge.	Totals.
January.	76	1	3	3	2	.....	.....	.....	.....	.....	.....	85
February	64	.....	1	5	1	1	.....	.....	.....	.....	.....	72
March	67	.....	1	.....	1	.....	.....	.....	.....	.....	.....	69
April	74	.....	2	1	20	.....	.....	.....	.....	.....	.....	97
May.	74	.....	3	4	47	.....	.....	.....	.....	.....	.....	128
June	76	2	2	.....	41	.....	1	1	.....	.....	.....	123
July	86	1	2	2	25	.....	1	.....	.....	.....	.....	117
August	90	2	1	1	12	.....	.....	.....	1	.....	1	108
September	84	.....	1	1	11	.....	.....	.....	.....	1	.....	98
October	89	.....	3	2	14	.....	.....	.....	.....	.....	.....	108
November	72	.....	2	3	1	.....	1	.....	1	.....	.....	80
December	63	.....	.....	1	1	.....	.....	.....	.....	.....	.....	65
Totals	915	6	21	23	176	1	3	1	2	1	1	1,150

TABLE NO. 2.

Showing the Amount of Money Received for the Quarantine Fees, the Care of Patients, and the Disinfection of Vessels for the Year Ending December 31, 1899.

MONTHS.	Steamships.	Ships.	Barks.	Barkentines.	Schooners.	Steam Barks.	Yacht.	Brigs.	Towing Steamers.	Barge.	Disinfection and Care of Patients.	Totals.
January	$1,456 97	$13 99	$18 24	$23 48	$7 78	.....	.....	.....	.....	.....	.....	$1,520 46
February	1,375 05	.....	10 59	33 86	16 89	$11 25	.....	.....	.....	.....	.....	1,447 64
March	1,353 58	.....	6 85	....	2 00	.....	.....	.....	.....	.....	.....	1,362 43
April	1,467 91	.....	11 56	6 54	94 61	.....	.....	.....	.....	.....	.....	1,580 62
May	1,306 67	.....	23 47	21 17	182 05	.....	.....	.....	.....	.....	$17 00	1,550 36
June	1,405 85	36 24	11 81	.....	131 11	.....	$2 00	$3 73	.....	.....	.....	1,590 74
July	1,568 57	17 91	17 39	10 61	114 33	.....	.....	2 94	.....	.....	230 00	1,961 75
August	1,761 21	30 98	10 98	6 54	69 24	.....	.....	.....	$2 00	$7 23	.....	1,888 18
September	1,684 26	.....	44 60	5 99	58 71	.....	.....	.....	.....	.....	.....	1,753 56
October	1,543 74	.....	16 79	12 40	63 40	.....	.....	.....	.....	.....	.....	1,636 33
November	1,418 81	.....	14 79	12 72	4 21	.....	.....	2 94	2 00	.....	.....	1,455 47
December	1,210 82	.....	.....	4 70	.....	.....	.....	.....	.....	.....	54 00	1,269 52
Totals	$17,553 44	$99 12	$147 07	$138 01	$744 33	$11 25	$2 00	$9 61	$4 00	$7 23	$301 00	$19,017 06

TABLE No. 3.

Showing the Number and Class of Vessels Detained at Quarantine for the Year Ending December 31, 1899.

Months.	Steamships.	Barks.	Barkentines.	Schooner.
January				
February				
March				
April				
May			1	
June				
July	1	1		
August				
September				
October				
November	1			
December	2			1
Totals	4	1	1	1
Grand total	7			

TABLE No. 4.

Showing the Number of Patients Treated at the Quarantine Hospital for the Year Ending December 31, 1899.

Disease.	Received.	Discharged.	Died.
Small-pox	27	27	.....
Yellow fever	1	.....	1
Malaria	1	1	.....
Typhoid	1	1	.....
Erythema multiforme	1	1	.....
Measles	2	2	.....
Syphilis	1	1	.....
Chicken-pox	1	1	.....
Quarantined	3	3	.....
Malingering	1	1	.....
Totals	39	38	1

Total number of Hospital days, 900.

REPORT

—OF THE—

INSPECTOR OF PLUMBING

Report of the Plumbing Inspector.

BALTIMORE, January 2, 1899.

C. Hampson Jones, M.D., Commissioner of Health:

SIR—I have the honor to submit the following report of work performed by this office for the year ending December 31, 1899. The annexed will show in detail the number of permits issued and inspections made:

Number of permits for plumbing	3,023
Number of permits for drains	227
Inspection of plumbing and drains	4,937
Registered plumbers in city	397

In conformity with the requirements of Section 7 of the ordinance regulating the work of plumbing, I most respectfully inform you that fines to the amount of thirteen dollars and forty cents ($13.40) were imposed for violations.

Respectfully submitted,

JOS. C. MITCHELL,
Inspector of Plumbing.

C. Hampson Jones, M.D., Commissioner of Health:

SIR—The following is the work of the office monthly:

January	Permits for plumbing.			100	Permits for drains....			10
February.....	"	"	"	97	"	"	"	4
March.....	"	"	"	214	"	"	"	10
April	"	"	"	234	"	"	"	28
May	"	"	"	304	"	"	"	35
June.....	"	"	"	298	"	"	"	27
July	"	"	"	479	"	"	"	25
August.....	"	"	"	297	"	"	"	27
September..	"	"	"	298	"	"	"	16
October	"	"	"	324	"	"	"	26
November ..	"	"	"	174	"	"	"	19
December ...	"	"	"	204	"	"	"	00
				3,023				227

Respectfully submitted,

JOS. C. MITCHELL,

Inspector of Plumbing.

C. Hampson Jones, M.D., Commissioner of Health:

SIR—The following is the inspection made by this office monthly:

January.....	Inspections of Plumbing and Drains.....					245
February.....	"	"	"	"	.....	175
March.....	"	"	"	"	.....	445
April	"	"	"	"	....	407
May	"	"	"	"	.....	497
June.....	"	"	"	"	.....	497
July	"	"	"	"	....	140
August.....	"	"	"	"	....	698
September.....	"	"	"	"	....	502
October	"	"	"	"	....	519
November	"	"	"	"	.....	410
December.....	"	"	"	"	....	402
	Total.....					4,937

Respectfully submitted,

JOS. C. MITCHELL,

Inspector of Plumbing.

Report of Inspector of Throats.

BALTIMORE, January 2, 1900.

C. Hampson Jones, M.D., Commissioner of Health:

DEAR SIR—I most respectfully report to you the work done by me as Inspector of Throats during the year 1899:

Number of cultures taken	3,650
Number of positive cultures found in children who wished to return to school	199
Number of houses visited	1,673
Number of units antitoxin administered	225,000
Number of patients injected	137
Number of cases treated for this department	7

Respectfully submitted,

CHARLES B. CANBY, M.D.,

Inspector of Throats.

Report of Inspector of Cows.

C. Hampson Jones, M.D., Commissioner of Health:

DEAR SIR—I beg to submit you a report on the number of cow stables that have been abated within the city limits during the past year; also, the number of cows in each stable.

Respectfully,

JOHN C. EICHNER,
Inspector.

BALTIMORE, January 4, 1900.

	Number of Cow Stables Abated.	*Cows.*
Ernst Health	747 E. Fort ave	14
F. Sknhr	McElderry st	5
Jacob Burner	Calverton road	21
Mrs. Trostle	Harlem ave. extended	9
Philip Horn	Christian st	3
Andrew Dozur	E. Monument st	8
Thos. Schenning	Loney's lane	65
H. Gerkin	Franklin road	54
Louis Kroppman	Chestnut st	10
A. Katciff	Caroline st	5
Chas. Block	Smallwood st	10
Louis Adler	Lexington st	15
H. Sanovitz	Edmondson ave. extended	20
A. Nugent	E. Fort ave	3
John Baumiller	Williams st	4
J. Dans	Columbia ave	4
P. Newell	W. Lexington st	4
Eva Daunberger	W. Lexington st	2
John Wagner	Frederick road	10
Mary Goldstein	W. German st	2
Emil Runge	503 Cider alley	1
Jesse Albright	Columbia ave	3
Wm. Walsh	W. Fayette st	1
Theo. Raffleman	S. Eden st	7
Chas. Holzwery	S. Caroline st	4
Geo. Levensen	S. Spring st	3
Beltie Wagman	E. Pratt st	6
Mrs. Seigle	S. Caroline st	4
Jos. White	Decatur st	3
Wm. Wirts	W. Cross st	2
E. Seward	W. North ave	6
Moses Burner	E. Lombard st	4
Patrick Clinton	Belvidere st	6
Gabriel Dorfman	E. Lombard st	3
		321

Total number of stables, 34.

Report of Food Inspector for 1899.

	Stores.	Markets.	Slaughter Houses.	Abattoirs.
January	712	82	30	16
February	628	65	28	13
March	770	77	40	18
April	716	73	40	16
May	762	41	74	18
June	760	80	36	16
July	482	47	25	10
August	493	51	39	11
September	720	47	32	12
October	581	40	23	12
November	616	50	30	10
December	588	45	29	10
	7,828	698	426	162
	698			
	426			
	162			
Visits	9,114			

NUMBER OF THE POUNDS OF FOOD CONDEMNED FOR THE YEAR 1899.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total lbs.
Beef			810	300	760	75	225			405			2,475
Mutton	65	200	85			290	50			5			695
Pork									150	800			950
Bacon							22	14		10			46
Sausage								20			20		40
Liver	35	85			90	60	40						310
Turkeys											440		440
Chickens											88		88
Veal					35	120	40						195
Rabbits											616	52	688
Cabbage	100												100
Bananas								90,000					90,000
													96,007

T. EUGENE CARMICHAEL, *Food Inspector.*

Report of the Nuisance Clerk.

BALTIMORE, January 4, 1900.

Dr. C. Hampson Jones, Commissioner of Health:

DEAR SIR—I have the honor to submit a report of my work for the year ending December 31, 1899, which, for convenience, I have arranged as follows:

1899. MONTHS.	Number of Notices Issued to Abate Nuisances.	Number of Notices Issued to Clean Privies.	Number of Permits Issued to Clean Privies.	Number of Loads of Night-soil Received at Foley's Wharf.	Number of Loads of Night-soil Received at Wiman's Cove.	Number of Loads of Night-soil Received at Both Dumps.
January	53	71	2,109	446	2,421	2,867
February	87	21	1,375	278	1,558	1,836
March	169	343	3,873	557	5,391	5,948
April	558	1,292	8,391	1,676	8,785	10,461
May	293	451	7,683	1,432	9,629	11,061
June	332	376	5,330	1,260	6,451	7,711
July	486	210	3,935	1,018	4,526	5,544
August	572	247	3,697	832	4,315	5,147
September	188	120	3,496	832	3,924	4,756
October	141	276	3,973	1,150	3,887	5,037
November	68	131	3,263	980	3,348	4,328
December	38	86	3,043	872	2,872	3,744
Totals	2,985	*3,624	50,168	11,333	57,107	68,440
Totals, 1898	4,269	14,938	45,903	7,010	56,114	63,124

*The apparent decrease in the number of notices to clean privies issued during 1899, as compared with previous year, is owing to the fact that during former inspections, while the inspectors assisted in issuing notices, the entire work was credited to the Nuisance Department; since June 1, 1898, the work has been systemized, complaints from each district being assigned to the inspector for same and included in his report.

Evidence secured leading to thirteen prosecutions for violating Section 101, Article 23, Baltimore City Code of 1893, with the following results:

Convicted, with fines and costs aggregating ninety-one dollars and ninety cents	7 cases.
Sent to court	3 "
Dismissed	3 "

The present system of issuing permits to clean privies, which you put in force February 1, 1899, has demonstrated its superiority to the former method, saving time for all concerned, making it possible for one man to do the work which formerly required at least two during the inspections; enabling the excavators to secure their permits without the delays which were unavoidable under the old system, while acting as more of a check on those inclined to conduct the business in an illegal manner. In conclusion, allow me to express my appreciation of the courteous treatment which I have always experienced when receiving instructions or advice from you relative to my work.

Very respectfully yours,

EVERETT V. SORDEN,
Nuisance Clerk.

Report of the Superintendent of Public Cemeteries.

BALTIMORE, January 1, 1900.

C. Hampson Jones, M.D., Commissioner of Health:

DEAR SIR—I beg to submit the following report of work performed by me as Superintendent of Public Cemeteries for the year ending December 31, 1899.

The table below gives a condensed statement of all work performed, such as interments in public and private cemeteries, bodies removed to the City Morgue, bodies given to the State Anatomical Board (in accordance with the requirements of Chapter 166, Laws of Maryland, 1890), number of houses from which infected bedding, etc., was removed and destroyed, number of patients removed to hospitals, etc.

Bodies buried in public cemeteries	472	
Bodies buried in private cemeteries	3	
Bodies taken to City Morgue	182	
Bodies transferred to Anatomical Board	210	
Bodies shipped out of city	3	
Total bodies handled	870	
Cases of small-pox sent to Quarantine	16	
" yellow fever sent to Quarantine	1	
" scarlet fever taken to hospitals	2	
" measles taken to hospitals	1	
" diphtheria from City Jail to home	1	
" diphtheria from Health Department to home	1	
" diphtheria from Health Department to Patapsco Neck	1	
Total cases handled	23	
Lots of infected goods destroyed from houses	31	
Lots of water gathered from pumps and springs in the Annex	128	
Total	159	
Fumigating lamps gathered	25	
Loads of old clothing taken from Morgue to Western Public Cemetery and destroyed	2	
Saving in coffins (orders issued, but not filled).	$543 75	
For year 1898		$300 25
For year 1899		243 50
		$543 75

Respectfully submitted,

EMORY M. STEVENSON,

Superintendent of Public Cemeteries.

Report of the Keeper of the Morgue.

BALTIMORE, January 1, 1900.

Yearly report of the Keeper of the Morgue, showing the number of bodies received, and the disposition made of them:

Total number of bodies received and cared for from January 1 to December 31, 1899	325
Total number of males received	256
Total number of females received	68
Total number of still-born children (sex not given)	1
Total number of whites received	151
Total number of blacks received	174
Total number of bodies identified	309
Total number of bodies unidentified	16
Total number of still-born children	6
Total number of bodies buried by city	227
Total number of bodies buried by friends	96
Total number of bodies remaining at the Morgue December 31, 1899	4
Total number of post-mortems	13
Total number of bodies received from day of opening, March 11, 1891, to December 31, 1899	2,014

WILLIAM H. HACKMANN,

Keeper of the Morgue.

Report of Messenger to Health Commissioner.

BALTIMORE, January 1, 1900.

C. Hampson Jones, M.D., Commissioner of Health:

DEAR SIR—I beg to submit the following report of work performed by me, in connection with my position as Messenger, for the year ending December 31, 1899:

Number of official letters and notices sent out by head of the department	1,785
Number of legal notices sent by the inspectors	1,960
Notices sent to public schools	16,000
Circulars sent to physicians	1,200
School books fumigated	11,800
Culture tubes delivered to the different stations	2,592

Respectfully yours,

ALBERT E. MUSHAKE,

Messenger to Health Commissioner.

ANNUAL REPORT

—OF THE—

Inspector of Buildings

—TO THE—

Mayor and City Council of Baltimore

—FOR THE—

FISCAL YEAR ENDING DECEMBER 31, 1899.

BALTIMORE:
WILLIAM J. C. DULANY COMPANY, CITY PRINTERS.

1900

Department of Buildings.

PERSONNEL.

Inspector of Buildings:
EVERETT J. DOWELL, No. 1423 Edmondson Avenue.

Clerk:
George W. Whiteside, No. 508 N. Carey Street.

Assistant Inspector of Buildings:
George R. Bullen, No. 1210 W. Franklin Street.

Inspector of Furnaces:
N. B. Shorey, No. 305 Robert Street.

Superintendent of New Construction:
Robert H. Beauchamp, No. 109 E. Montgomery Street.

Superintendent of Repairs:
Solomon Coburn, No. 1518 Eutaw Place.

Inspector of Northwestern District:
Charles A. Allard, No. 1825 N. Broadway.

Inspector of Northeastern District:
Harry C. Clocker, No. 416 Glover Street.

Inspector of Southeastern District:
John H. Horner, No. 1117 Granby Street.

Inspector of Southwestern District:
Charles L. Gemundt, No. 1204 W. Cross Street.

Inspector of Annex District:
J. Frank Crowther, Woodberry & Parkdale Avenues.

General District Inspector:
William J. West, No. 201 N. Carey Street.

REPORT.

OFFICE OF THE INSPECTOR OF BUILDINGS,
CITY HALL.
BALTIMORE, December 30, 1899.

To the Honorable the Mayor and City Council of Baltimore:

GENTLEMEN—I have the honor to submit herewith a report of the operations of this department for the year ending December 31, 1899.

With the return of prosperity has come a large increase in the better class of buildings; the year that has just closed has been notable for the size and general excellence of the structures erected.

Owing to the great advance in the cost of building materials the number of dwelling houses constructed was slightly less than last year, but in all other lines there has been a gratifying increase, both in the number and character of buildings constructed.

Several costly structures of imposing size and design have been completed, and there is now in course of construction a dozen or more buildings of a quality hitherto unknown in this city.

There does not appear to be any reason for assuming that this character of building, that adds so much to the convenience of the public, the attractiveness of the city and to its taxable basis, is the result of a mere passing fancy, but on the contrary the signs are not wanting that it has come to stay, and that it will engender a spirit of rivalry among architects and builders that can only result in more attractive designs and greater excellence of construction. The present is productive of good results, the future is full of promise for buildings of even greater magnificence than any that have been or are now being erected.

Owing to the determination of ex-Mayor Malster and those municipal officers associated with him, upon whom devolved the great responsibility of providing sufficient revenue to meet the expenses of the city, and yet keep the tax rate down to a figure that would work the least possible hardship to the already-burdened taxpayer, it was wisely decided to delay the construction of any new public buildings, no matter how urgently needed, until such time as the financial condition of the city would warrant such expenditures.

But while there have been no new public buildings erected, the department has been kept very busy in making repairs and general improvements to city property.

CITY PROPERTY.

It is perhaps not generally known how much property the city owns. There are 101 school buildings owned absolutely by the city, and 38 private buildings rented for school purposes. There are 11 markets and 3 halls connected with them. There are 33 engine houses, the City Hall, Court House, Quarantine Hospital, and City Morgue. To keep all these in proper repair, and introduce from time to time such improvements as the ever-increasing demands of the service require, involves a degree of thought and labor that can only be appreciated by that class of our citizens who have to do with the management and care of real estate.

SCHOOL SANITATION.

During the year we have continued the work of substituting the latest and most scientific system of sanitation known for the disgusting and health-destroying system hitherto in vogue in our public school buildings.

This work has elicited the highest commendation from all classes of our citizens, and has also attracted the attention of recognized authorities on the subject in other cities, including such men as Professor Woodbridge, of Boston.

This matter of sanitation in schools is commanding greater

attention to-day than ever before, for which the community is indebted to the daily press more largely than to any other individual source. The several great dailies have freely given up valuable space to communications on the subject; their representatives have displayed a most commendable zeal in keeping in touch with this department, and in securing for their respective journals every item that would serve to increase the public interest in the subject; indeed, without their invaluable assistance it would have been impossible for the department to have attained any approach to its present success.

We are also greatly indebted to the officers and members of the Arundell Club, and to the several Medical Colleges.

The splendid educational work in which these organizations have been engaged for years past is now bearing an abundant harvest; all classes of our citizens are alive to its inestimable value, and this department has been literally deluged with complimentary letters on account of the introduction of this sanitary system.

To appreciate fully what this improvement means to the health and general well-being of the many thousands in daily attendance upon these schools, it is only necessary to contrast briefly the two systems. Under the old system the children were compelled to leave a warm room and to go a distance of from 25 to 100 feet in all kinds of weather to the lavatories—which, because of improper sewer connections, want of ventilation, and consequent foul odors, were the breeding place for all kinds of disease.

Under the new system the lavatories are situated inside the building in a warm, well-lighted and well-ventilated room: automatic flush tanks discharge their contents at regular intervals during the entire day, transforming what has heretofore been a loathsome place into a room as cheerful and bright as any other in the school.

A system that has done so much for the health and comfort of the community is deserving of all the good that has

been said concerning it, and the work of substituting it for the antiquated system still in use in many of the schools should be vigorously pushed until all our school buildings shall become models of sanitation.

During the year we have been enabled to put in nine (9) of these new systems, and have partly completed the tenth. It should be said that the introduction of this system is in the line of economy. For many years past the city has been compelled to appropriate a sum of money to be used in emptying cess-pools. This drain upon the city finances will be effectually stopped when the schools are all equipped with this improved system.

REPAIRS TO SCHOOLS.

Extensive repairs have been made to the schools during the past summer. These repairs have included new roofs, paving yards, glazing and painting both the interior and exterior of the buildings. How badly this latter feature was needed can be best appreciated when I state the fact that several such buildings, painted this year, were not painted before for a period of twenty years. This statement is vouched for by the principals of the several schools.

ENGINE HOUSES.

We have been enabled during the year to very materially improve the engine houses owned by the city. Several have been remodeled, and rendered more in keeping with the present needs of the Fire Department; we have newly papered and painted quite a number of these buildings, laid several new floors, put on new roofs and made many other repairs of a minor nature, the result being that the several engine houses are in better condition to-day than ever before.

MARKET HOUSES.

We have also greatly improved the condition of our market-sheds and halls. The delapidated condition of our market

halls was so well known as to make a detailed description of them unnecessary. It is my pleasure to report that we have newly frescoed and repainted both the interior and exterior of Broadway, Hollins, and Cross-street Market Halls, and have also put in new heaters, in addition to making numerous repairs to paving, etc., at the several markets.

QUARANTINE HOSPITAL.

My attention was called to the possibility of an outbreak of small-pox or some equally contagious disease by Dr. Ruhrah, physician in charge, and to the fact that this building was imperfectly adapted to meet such a contingency, especially lacking in heating apparatus; it was urged that in the event of an actual outbreak of such contagious diseases it would be manifestly impossible to secure men to put in the necessary heating apparatus. I deemed it wise to supply this deficiency, and accordingly put in four large stoves, which while comparatively inexpensive will be sufficient to heat the building. I also found it necessary to improve the sewer connections, which was done at a trifling cost.

CITY HALL ELEVATOR.

The construction of the new elevator for the City Hall, which was begun in 1898, was completed during the past year, and is now doing excellent service.

CITY COLLEGE BUILDING.

I am pleased to report the completion of the new City College building during the year. Notwithstanding the long period of inactivity caused by the unfortunate controversy over the security of the foundations, etc., the completed structure is in every sense a magnificent building, as well adapted to the purpose for which it was designed as any school building in this country.

I would not withhold the credit that is justly due ex-Mayor

Malster, Comptroller Smith, and the firm of Baldwin & Pennington, architects; without their invaluable services the final completion and acceptance of this building might have been indefinitely postponed, and the city put to considerable additional expense.

NEW TRUCK HOUSE.

We were unable to complete the proposed new Truck House for which $24,319.61 was appropriated. This failure was not occasioned through any lack of effort on the part of this department, but was due entirely to legal complications. We advertised for proposals for its erection in August of 1899, and the Board of Awards let the contract to C. Sheehan & Sons on September 7, 1899. Almost immediately after the public announcement that the contract had been awardel, legal proceedings were instituted to prevent its construction. Before the courts had taken any action, the City Council, by resolution, abandoned the site.

FRAME SHEDS.

There have been about the usual number of frame sheds and frame extensions erected during the year. The constantly increasing number of these structures cannot be regarded with any degree of satisfaction. The present law, excellent as a whole, for which the community is indebted to the architects and builders of the city who were instrumental in its passage, attached a fee to the erection of such frame constructions, hoping thereby to discourage their number, and at the same time to give the city something in the way of financial return for the privilege allowed. Candor compels me to admit that the fee has not been effective in reducing their number, and the fee charged is very insignificant compared with the multiplied danger from fire. It would seem that some additional legislation is needed to check this character of buildings. While the law has permitted the erection of many structures that I have regarded as more or less

dangerous, I have insisted that they be made as nearly fire-proof as possible, by not alone having them observe the law as to fire-proof roofing, but in many instances having the sides of such structures covered with corrugated iron, etc. In this connection I want to acknowledge my indebtedness to the Board of Fire Underwriters who have rendered me invaluable service in my efforts to reduce to a minimum the danger from fire.

HOT AIR AND STEAM HEATING.

This is the day of the hot-air furnace. A few years ago the fire-place heater was the popular method of heating dwellings—only the wealthier classes of our citizens felt that they could afford the hot-air furnace—but this has all changed, and with their more general use has come a reduction in cost, until to-day they are the recognized means for heating all new dwellings, and are fast supplanting the hitherto popular fire-place heater. Unless all signs fail, we may look for a steady increase in the number of such furnaces erected each year, until their use becomes as general as was the fire-place heater several years since.

The rapid increase in the number of furnaces erected demands increasing vigilance on the part of the Inspector of Furnaces, and a most rigid enforcement of the furnace laws by this department. The number of fatalities that have occurred in our city, entailing the loss of several very valuable lives, were directly traceable to the faulty construction of furnaces, and it is only possible to prevent a recurrence of such dire disasters by the most rigid enforcement of the law in its every detail. It is a fact not generally known that the city has but one official to examine all these furnaces, and to see that violations of the law do not occur. In addition to this he is required to keep an accurate account of all furnaces examined, all violations, etc., in a book kept for the purpose.

The duties of this office, which are now too numerous to insure the most efficient service, will in the near future be

increased, because, as I have already shown, the number of furnaces erected each year will be larger for several years to come. At present no charge is made for permits; and this leads me to suggest that it might be wise for the city to exact a small fee for each permit, say one dollar each. This charge is made in a number of the larger cities and is productive of excellent results. Its adoption in this city would not be at all burdensome to our people, and would yield the city an income of at least $500 a year without adding a cent to the tax rate.

RECEIPTS FROM PERMITS, ETC.

The receipts of the office for permits of various kinds show a very gratifying increase, being about 40 per cent. in excess of 1898. It may be urged that this is due to the more prosperous condition of our people; but while this is in a measure true, I am sure that it is in larger measure due to the increasing and persistent efforts of the several district inspectors in carrying out my instructions to keep a sharp lookout for violations of the law—violations occasioned by the failure of persons to take out permits as required by the law, and to which a fee was attached, and to report such violations to me promptly. I could furnish numerous instances, aggregating several hundreds of dollars, where such structures would have escaped detection had it not been for the vigilance of the district inspectors.

While the receipts of the department have been so much greater than last year, they would have been even larger had it not been for the change rendered necessary by the New Charter. Before the New Charter became operative the then existing law permitted persons to erect bow windows (under certain restrictions) without a fee. The charge for areaways was only 30 cents per square foot. Bay windows were also allowed at a trifling cost.

The new and admirable City Charter has compelled a change, and His Honor Mayor Hayes has taken hold of the

matter with commendable zeal, and has insisted that inasmuch as such concessions are in the nature of franchises, the city is justly entitled to a fee commensurate with the valuable privilege granted. In his efforts to enforce the law, and in any effort he may make to secure such additional legislation as may be found necessary to protect the city's interests, he should receive the earnest and hearty co-operation of the building fraternity and of the citizens generally. The immediate result of this may be a small reduction in the receipts of the department, but the more lasting and permanent results will be found in the annual income the city will receive from this source, which must in the nature of the case amount to a very considerable sum.

The department desires to acknowledge its indebtedness to His Honor the Mayor and to the City Council for so heartily co-operating with me in my efforts to secure the most efficient service. Taken as a whole, the year has been eminently satisfactory, and has been productive of better results than ever before. I am sure that I do the truth no violence when I assert that the city property is to-day in better condition than it has been at any other time in the history of the city, and while there yet remains much to be done, it is a matter for general congratulation that the city property as a whole is in such a satisfactory condition.

For a more detailed statement see accompanying tables. All of which is respectfully submitted for your consideration and guidance.

EVERETT J. DOWELL,

Inspector of Buildings.

TABLES.

TABLE A.

Showing the Appropriations and Disbursements for the Year 1899.

ACCOUNT.	APPROPRIATIONS.	EXPENDITURES.	BALANCES.
Building New City College, balance to complete	$80,000 00	$80,000 00	
Contingent Fund	752 00	752 35	
Building New Truck House, balance to complete	24,319 61	24 29	$24,295 32
Building New No. 7 Grammar School, balance to complete	2,200 00	2,200 00	
Building New No. 9 Colored School, balance to complete	1,367 70	1,367 70	
Building New City Hall Elevator, balance to complete	5,451 30	5,359 86	91 44
Repairs to School Houses	30,000 00	30,000 00	
Repairs to City Property	30,000 00	30,000 00	
Sanitary and other Improvements	20,000 00	20,000 00	
Emptying Cesspools	800 00	798 82	1 18
Livery and Transportation	500 00	500 00	
Incidentals	400 00	400 00	
Salaries	15,100 00	15,053 80	46 20
Repairs to City Property, Contingent Fund	1,193 25	1,193 25	
ANNEX:			
Building No. 18 School, balance to complete	2,013 72	2,013 72	
Building No. 3 School, balance to complete	1,846 00	1,846 00	
Building No. 21 Engine House, balance to complete	651 37	651 37	
Repairs to City Property	3,500 00	3,496 57	3 43
Livery and Transportation	250 00	250 00	
Salaries	1,200 00	1,200 00	
Total amount of	$221,545 30	$197,107 73	$24,437 57

TABLE B.

Showing the Receipts of this Office for the Year 1899.

Advertising	$ 856 00
Bay Windows	1,128 00
Frame Sheds	2,899 40
Frame extensions in rear	1,850 00
Bath rooms	672 00
Vaults and areas	3,188 96
Tapping Sewers	240 00
Awnings	220 00
Total	$11,054 36

KEY TO TABLE B.

Showing the Receipts of this Office by Months, from January 1 to December 31, 1899.

	Bay-Windows.	Frame Sheds.	Bath-rooms.	Vaults and Areas.	Tapping Sewers.	Advertising.	Awnings.	Frame Extension in Rear.	Totals.
January	.....	$ 101 65	$ 26 00	$ 297 00	.....	$ 49 00	$ 8 00	$ 70 00	$ 551 65
February	.....	295 00	18 00	18 60	.....	75 00	.....	18 00	424 60
March	.....	248 00	16 00	1,026 75	.....	31 00	16 00	42 00	1,379 75
April	$244 00	208 00	42 00	41 30	$ 40 00	96 00	52 00	92 00	815 30
May	10 00	274 00	36 00	110 75	.....	70 00	60 00	60 28	620 75
June	140 00	218 00	48 00	164 70	.....	127 00	36 00	28 00	761 70
July	4 00	198 75	170 00	53 01	120 00	18 00	12 00	369 00	944 76
August	100 00	274 00	46 00	679 20	.....	135 00	16 00	111 00	1,361 20
September	108 00	311 25	40 00	30 60	40 00	41 00	4 00	144 00	718 85
October	22 00	242 00	124 00	461 40	.....	85 00	.....	256 00	1,190 40
November	500 00	365 75	84 00	305 65	40 00	20 00	12 00	558 00	1,885 40
December	.....	163 00	22 00	.....	.....	109 00	4 00	102 00	400 00
Total	$1,128 00	$2,899 40	$672 00	3,188 96	$240 00	$856 00	$220 00	$1,850 00	$11,054 36

TABLE C.

Showing the Number of Permits Issued in 1899 for New Buildings, etc., in Old Twenty Wards.

	Brick Dwellings.	Brick Additions.	Warehouses, Stables, Stores, &c.	Improvements.	Churches.
January	41	6	2	2	.....
February	30	9	2	5	1
March	305	33	14	12	.....
April	124	48	18	5	.....
May	121	39	12	8	4
June	148	32	7	3	2
July	48	44	9	8	.....
August	68	34	14	2	1
September	74	34	3	4	1
October	165	39	15	4	.....
November	133	27	13	6	.....
December	89	27	9	7	.....
Total	1,346	372	118	66	9

Showing the Number of Permits Issued in 1899 for New Buildings, etc., in the "Annex," or Twenty-first and Twenty-second Wards.

	Brick Dwellings.	Frame Dwellings.	Brick Additions.	Warehouses, Stables, Stores, &c.	Frame Additions.	Improvements.	Churches.
January	23	5	.....	.....	2	.....	.....
February	10	1	.....	2	1	1	.....
March	26	9	4	3	7	.....	.....
April	62	35	5	1	5	1	.....
May	19	14	3	6	2	1	1
June	12	3	1	.....	2	.....	.....
July	31	2	1	4	5	1	.....
August	1	2	1	1	7	2	1
September	39	8	2	2	4	1	.....
October	17	.....	5	1	5	.....	.....
November	49	3	1	1	5	.....	.....
December	10	10	.....	.....	2	1	.....
Total	299	92	23	21	47	8	2

TABLE D.

Showing the Number of Condemnations, Violations, etc.

Buildings condemned	39
Walls "	150
Chimneys "	77
Violations of the building laws	62
Notices to repair rainspouts, areaways, fences, awnings, etc	121
Total	449

REPORT OF THE ASSISTANT INSPECTOR OF BUILDINGS.

DEPARTMENT OF BUILDINGS,
BALTIMORE, December 30, 1899.

Everett J. Dowell, Esq., Inspector of Buildings:

SIR:—Pursuant to your request, I have the honor to submit herewith my annual report of the work that has been accomplished under my supervision as your Assistant for the year ending December 30, 1899.

The system of book-keeping now in operation, while it entails a large amount of clerical work never before required in this department, is in every sense ideal; indeed, it is surpassing strange that it was not adopted many years ago. Before your term of office the only system in vogue was that of keeping a record of the income and expenses of the department under the several general headings, such as repairs to school-houses, city property, etc., etc. No previous attempt had ever been made to individualize accounts. This admirable system makes it possible to tell in a moment exactly the amount that has been expended on each separate piece of city property, to whom paid, and for what purpose.

The clerical work of the department is, as you know, very heavy; it includes the collection and distribution of funds amounting to nearly one-quarter of a million dollars annually, keeping the office records, issuing permits of various kinds, writing and sending out notices of violations and needed repairs, and keeping a record of such notices, preparing notices for numbering houses, issuing written orders for every job of

work done for the department, conducting the official correspondence, and keeping the cash account balanced daily as you require.

The present very efficient clerk has performed his duties with exceptional ability and fidelity, and yet I have frequently found it necessary to render him such assistance as I could, in his efforts to properly conduct the manifold duties of his office. While thus assisting him, I have not neglected the special duties intrusted to me, those of mapping out and superintending the work of the District Inspectors. As you are aware, the old twenty wards are divided into four (4) districts, with an Inspector for each. These districts will average an area of more than four square miles each. The two new wards, commonly styled "The Annex," form the Fifth District, and comprise a territory little less than the entire twenty old wards. To properly look after districts so large, by a careful inspection of all new buildings, reporting dangerous conditions, evasions or violations of the law, is not an easy task, and yet after a personal inspection of the various districts, I am prepared to say that their work as a whole is all that could be desired. An examination of the following tables will show the amount of work that has been accomplished during the year.

CITY.	1899.	1898.
Brick dwellings	1,346	1,366
Brick additions	372	347
Warehouses, stores, stables, etc	118	102
Improvements	66	94
Churches	9	4
Total	1,911	1,913

ANNEX.	1899.	1898.
Brick dwellings	299	478
Frame dwellings	92	114
Brick additions	23	24
Warehouses, stores, stables, etc	21	13
Frame additions	47	49
Improvements	8	2
Churches	2	6
Total	492	713

Included in the above are several large buildings designed for various purposes that I deem worthy of special mention. They are as follows:

Faith Reformed Church, Patterson Park avenue and Gough street.
Wilson Mem. Baptist Church, North avenue and Seventh street.
Church of the Redeemer, Oliver street, east of Bond street.
Holy Cross Church, West and William streets.
Saviour's Mission, Milton avenue and Jefferson street.
Mt. Holly Hotel, Clifton avenue and 18th street.
Robert Poole Library, Falls road.
Fayette Land and Construction Co., Fayette and St. Paul streets.
National Union Bank, Fayette street, east of Charles street.
Townsend, Grace & Co., Fayette street, near Park avenue.
United Ry. & Elec. Co., Columbia avenue and Bush street.
Guardian Trust & Deposit Co., Calvert and German streets.
Female House of Refuge, Calhoun and Baker streets.
Md. Telephone Co., Lexington and Portland streets.
Md. Telephone Co., Druid Hill avenue and Robert street.
Balto. Bargain House, Fayette street, near Howard.
O'Neil & Co., Charles and Lexington streets.
Erlanger Bros., Pratt and Greene streets.
Balto. Lodge of Elks, Fayette street, near Howard street,
Posner Bros., Lexington and Howard streets.
Balto. Ice Co., Henry and Hughes streets.
M. Levy & Son, Paca and Lombard streets.
B. & O. R. R. Co., Camden and Eutaw streets.
Balto. Steam Packet Co., Light street, near Conway.
College of Physicians, Saratoga and Calvert streets.
Hall, Headington & Co., Charles and Fayette streets.

I have had the following buildings, walls, chimneys, etc., examined by the District Inspectors, and sent out the following notices:

	1899.	1898.
Buildings condemned	39	22
Walls "	150	126
Chimneys "	77	71
Violations of the building laws	62	58
Notices to repair rainspouts, fences, awnings; etc.	121	172
Total	449	449

PERMITS.

During the year I have examined and passed upon applications for the following privileges for which I have authorized permits to be issued:

	1899.	1898.
Sheds	643	811
Frame extensions, porches, etc	925	608
Bath rooms	336	257
Bow windows	138	152
Boilers	62	21
Awnings	55	88
Permit to repair sheds, walls, chimneys, etc	1,256	1,159
Total	3,415	3,096

I have examined quite a large number of applications for privileges that were in conflict with the law, and of course have declined to issue permits for such privileges.

NUMBERING HOUSES.

In my report last year I called attention to the fact that an ordinance was pending for the extension of the Decimal System to the Annex, and recommended that in the event of its passage an appropriation be made to carry out the provisions of such ordinance, giving as my reason the insufficiency of the departmental force to assume any additional duties. This ordinance was duly passed, but no appropiation was made for conducting the work, and while the inspectors in charge of the Annex have a vast amount of work to perform, and so large a territory to cover, I have found it necessary to impose this additional duty on them, and they have devoted as much time as possible to numbering and re-numbering the Annex property, delivering the notices in person to the owners of the property. During the year we have numbered 1,689 new buildings and re-numbered 1,045 old buildings, being an increase of 1,126 as compared with 1898.

SYSTEM OF REPAIRS.

The adoption of the present system for making repairs has made it possible to do an enormous amount of work with a

comparatively small amount of money. The report of the District Inspector to whom you entrusted the work of inspecting repairs speaks for itself, and attests the efficacy of the system better than any words of mine could. In every instance before any work was given out this officer made an examination of the premises, and reported exactly what was needed; this enabled you to make an intelligent award of the work, and prevented the possibility of any extortion. During the progress of these repairs they were under the surveilance of this inspector, and at their completion it was made incumbent upon him to make an examination of the completed work and approve each bill before it was ordered paid. The result has been more work accomplished and of a better character than could have been otherwise secured.

VIOLATIONS.

The tables given in your report will show a small increase in the number of violations, but I am pleased to report that the large majority of these violations have been of a minor character—the very few flagrant violators of the law were early brought to see, what was generally known for some time past, *i. e.* that you would not tolerate such violation. The large number of builders who have been dealing with this department, make the total number of violations appear infinitesimal, and the builders and public generally are to be commended for their ready compliance with the law.

FIRE LINE LIMIT.

I would urge upon you the importance of early establishing a "Fire Line" within which no frame or wood structure shall be built hereafter.

The annexation act of 1888 will now go into full operation, and it is a matter of vital importance that such limits be established at the earliest possible moment. To compel the erection of brick, stone or iron structures in sections of the

Annex that are sparsely settled would impose a hardship upon our citizens, without serving any good purpose. I would therefore recommend that you bring this matter to the attention of his Honor the Mayor, and the City Council, so that whatever legislation is needed may be promptly enacted

Before concluding this report I cannot refrain in justice to the District Inspectors from bearing testimony to the high character of their work, and to their willingness at all times to do any and all work that I assigned to them. On their behalf and on my own account I want to congratulate you on the year's work, which I firmly believe has produced the best results obtainable with the funds at your command.

Respectfully submitted,

GEO. R. BULLEN,

Assistant Inspector of Buildings.

DEPARTMENT OF BUILDINGS, CITY HALL.

Report of Superintendent of Repairs.

Baltimore, December 30th, 1899.

Everett J. Dowell, Inspector of Buildings:

Sir: I have the honor to make the following reports:

I have examined seventeen hundred and twenty-nine (1729) repairs through the year 1899. When it is taken into consideration that these repairs have to be looked over three or four times while in progress, it will readily suggest what a tremendous amount of work has been performed through the year.

I will note the work done on each public building:

No. 1 Primary and Grammar School (Female).—Glass in windows; water run to third story; closets and paving repaired; drain opened to sewer.

No. 1 Primary and Grammar School (Male).—Glass in windows; drain-pipe cleaned; closets, doors and windows repaired; new ventilators on roof.

No. 2 Grammar School.—Painted outside; glass in windows; floors, paving, doors and plumbing repaired; roof repaired.

No. 3 Primary and Grammar School.—New sanitary closets; old closets removed; fences, doors, windows and hydrants repaired; roof painted; yards repaved; glass in windows new division wall.

No. 4 Grammar School.—New sanitary closets; glass in windows; hydrants, paving, closets, doors repaired.

No. 5 Grammar School.—Glass in windows; new partition, lower floor; hydrants, doors, cord in windows repaired; yards repaved.

No. 6 Grammar School.—New sanitary closets; glass in windows; cords in windows; paving, doors and hydrants repaired.

No. 7 Grammar School.—West yard and slopes paved new; new ventilators in walls; doors; trap-doors on roof; drains cleaned; cellar floor cemented; locks and bolts repaired.

No. 8 Grammar School.—Glass and cords in windows; plaster ceilings; rear and cellar steps, hydrants and paving repaired.

No. 10 Grammar School.—Fire escape removed; doors, windows, yards, foot-way and hydrants repaired.

No. 11 Grammar School.—New sanitary closets; glass and cords in windows; new cloak room; fences, down-spouting, yards and doors repaired.

No. 12 Grammar School—Painted inside and outside; new sanitary closets; new hydrants; yards, footway and front brick work repaired; doors, windows and flush closets repaired.

No. 13 Grammar School.—Painted inside; new stone wall, south yard; new fence and same yard newly paved; hydrants, paving, floors, doors, windows and urinal repaired.

No. 15 Grammar School.—Glass and cords in windows; hydrants, roof, spouting, yards, footway, plaster ceilings, plumbing, closets and doors repaired.

No. 16 Grammar School.—Fences, roof, yards, footway, doors and windows repaired.

No. 17 Grammar School.—Painted inside and outside; new floors in class rooms; glass and cords in windows; hydrants, yards, doors and closets repaired.

No. 18 Grammar School.—Painted outside; doors, windows, yards, hydrants, closets repaired, and glass in windows.

No. 19 Primary and Grammar School.—Glass and cords in windows; new urinal; locks, bolts and doors repaired.

No. 20 Grammar School.—Glass and cords in windows; hydrants, doors, yards, locks and bolts repaired.

No. 21 Grammar School.—Glass and cords in windows; water run in cellar; new cloak room; drain pipe from closets cleaned; new urinal; doors, yards, roof and hydrants repaired.

No. 22 Grammar School.—Roof, front and wood work painted outside; new urinal; fences, yards, hydrants, doors, windows, roof and floor repaired.

No. 2 Primary School.—Hydrants, yards, cellar-ways, doors and windows repaired.

No. 4 Primary School.—New hydrants; yards and footway paved; new supply pipes; glass in windows.

No. 5 Primary School.—New sanitary closets; old closet removed; painted inside; yards, spouting, doors, windows and fences repaired.

No. 6 Primary School.—Cesspool cleaned; fences, hydrants, flush closets and yards repaired; glass and cords in windows.

No. 7 Primary School.—Fences, hydrants and trap-door repaired.

No. 8 Primary School.—Footway in cellars; painted inside and outside; cesspool cleaned; doors, windows, plaster ceilings, hydrants, yards and footway repaired; glass and cords in windows; shutters re-hung.

No. 10 Primary School.—New cloak room; two new triple windows; front and roof painted inside and outside; roof, spouting, hydrants, doors, windows, yards, locks and shutters repaired; glass and cords in windows.

No. 11 Primary School.—Yards repaved over old closets; roof, spouting and fences repaired; glass and cords in windows; glass in back stairway for light.

No. 12 Primary School.—Painted inside; cesspool cleaned; glass and cords in windows; chimneys, roof, fences, yards, footway, hydrants, flush closets and spouting repaired.

No. 13 Primary School.—Painted outside and roof; fence painted; glass in windows.

No. 14 Primary School.—New fence on south side roof; and closets repaired; glass and cords in windows.

No. 15 Primary School.—New floors in closets; roof, spouting, chimneys and side wall repaired; glass and cords in windows.

No. 16 Primary School.—Roof, spouting, closets, hydrants, yards and footway repaired; glass and cords in windows.

No. 17 Primary School.—Roof, spouting, fence, hydrants and doors repaired; glass and cords in windows.

No. 18 Primary School.—Re-hinge and locks on doors; hydrants repaired; glass in windows.

No. 20 Primary School.—New sanitary closets; old closets removed; fence and front painted; roof, spouting, hydrants, yards and foot-way repaired; glass in windows; new sink on first floor, and new supply pipes.

No. 21 Primary School.—Painted front; iron fence, wood-work inside and outside; snow-boards; hydrants, yards, fences and foot-way repaired; new cellar sash and screens; floors, windows and doors repaired.

No. 22 Primary School.—Hydrants, yards, foot-way, closets, fences, doors repaired; glass and cords in windows; shutters and fastenings repaired.

No. 23 Primary School.—Hydrants, yards, spouting and closets repaired; glass in windows.

No. 24 Primary School.—Hydrants and yards repaired; glass in windows.

No. 25 Primary School.—Doors, plumbing, slate roof, spouting, hydrants and yards repaired; glass in windows.

No. 26 Primary.—Painted inside; fences, hydrants, yards and foot-way repaired.

No. 27 Primary School.—Fences repaired; glass in windows.

No. 28 Primary School.—Foot-way repaired; glass in windows.

No. 29 Primary School—Painted roof and wood-work outside; doors, locks, bolts, closets, fences and spouting repaired.

No. 30 Primary School.—Closet painted; yards and hydrants repaired; glass and cords in windows.

Annex to No. 30 Primary School.—Wash-stand pipes, yards and windows repaired; closet painted; glass and cords in windows.

No. 31 Primary School.—Painted roof, wood-work inside and outside; glass in windows; fences, doors, sash, hydrants, yards, locks and bolts repaired.

No. 32 Primary School.—Painted tin roof, wood-work outside and spouting; spouting and gutter, and supply and waste pipes repaired.

No. 33 Primary School.—Glass and cords in windows; new supply pipes; hydrants, yards and footway repaired.

No. 34 Primary School.—Roof, spouting and closets repaired.

No. 35 Primary School.—Roof, spouting, hydrants, supply pipe in cellar; yards and wash-stand repaired; glass and cords in windows.

No. 37 Primary School.—Yards, area-ways, supply pipes and foot-way repaired; glass in windows.

No. 38 Primary School—New partitions in second story; hydrants, yards and fences repaired.

No. 39 Primary School.—Fences, cellar windows, doors and closets repaired; glass in windows.

No. 1 English and German School.—New hydrant; spouting and roof repaired; closets, ceilings and yards repaired; walls painted; sliding doors repaired; outside doors painted.

No. 2 English and German School.—Painted inside and outside; new sanitary closets; roof, yards and fences repaired; old closets removed.

No. 3 English and German School.—New iron stairway; spouting, closets, yards, doors and sash repaired; glass in windows.

No. 4 English and German School.—New sanitary closets; painted roof and wood-work inside and outside; hydrants, yards and fences repaired; corridor partition stayed; glass in windows.

No. 5 English and German School.—Roof, wash-stands, galvanized smoke-pipe, hydrants and doors repaired and doors re-hinged.

No. 6 English and German School—Fences, yards, hydrants, steps, roof and supply pipes repaired; glass in windows.

Colored High School.—Joists cut around smoke pipes in cellar; painted roof and wood-work inside and outside; shutters, doors, windows, wash-stands, yards and closets repaired; glass in windows.

No. 2 Colored Grammar School.—Closets, fences, stairway, hydrants, locks, doors and gates repaired; glass in windows.

No. 3 Colored Grammar School.—Painted walls and wood-work outside; new ventilator on roof; roof, fences, closets, doors, sash and yards repaired; glass in windows.

No. 2 Colored Primary School.—Painted front and wood-work inside; fences, closets, doors, sash and hydrants repaired.

No. 3 Colored Primary School.—Plaster ceilings, hydrants, yards, cellar drains repaired; glass in windows.

No. 4 Colored School.—Repaired floors, fence, chimneys, closets, shutters, roof and spouting; glass in windows, and hydrants repaired.

No. 5 Colored School.—Parts of new floors; cellar windows, closets, fences, doors, sash, hydrants and doors repaired; glass in windows; cesspool cleaned.

No. 6 Colored School.—Doors, windows, sash, stairway, hydrants, yards, footway, shutters and fences repaired; glass in windows; cesspool cleaned.

No. 7 Colored School.—New floors in closets; roof, spouting, hydrants, yards and flush closets repaired; glass in windows.

No. 8 Colored School.—Hydrants, shutters, yards, footway, roof, doors, locks, windows and spouting repaired; glass in windows; plaster ceiling repaired.

No. 9 Colored School.—Hydrants, closets, yards, footways, and wash-stand pipes repaired.

No. 10 Colored School.—New pavement in west yard; footway repaired; supply pipe in cellar repaired; doors, locks and window fastenings repaired; glass in windows; roof painted.

No. 1 Annex School.—Cesspool cleaned; fences and hydrants repaired; glass in windows.

No. 2 Annex School.—Cesspool cleaned; roof, spouting and hydrants repaired.

No. 3 Annex School (Female).—Closets, yards, footways, wash-stands, supply and waste pipes, roof and spouting repaired; glass in windows.

No 3 Annex School (Male).—Flush closets inclosed; yard repaved; hydrants and fences repaired and painted; glass in windows and doors.

Nos. 4 and 6 Annex Schools.—Glass in windows.

No. 7 Annex School.—Painted inside; east wall painted, and stone work repaired; new spouting and ventilator.

No. 8 Annex School.—Roof, yards and doors repaired; glass in windows.

Annex to No. 8 Annex.—Hydrants, stairway, doors, windows, shutters and sash repaired.

No. 9 Annex School.—Roof, hydrants and spouting repaired.

No. 10 Annex School.—Sash, sash-cord, doors, roof, boardwalk and closets repaired; glass in windows.

No. 11 Annex School.—New hydrants; supply pipes, doors, yards and footway repaired; glass in windows.

No. 13 Annex School.—New pavement on Washington street; yards and footway, spouting and gutters repaired; wainscoting cut around registers, same plastered around; glass in windows.

No. 15 Annex School.—Yards newly paved; new boardwalk; glass in windows, and hydrants repaired.

No. 16 Annex School.—Roof, spouting, wash-stands and waste pipes repaired; wood-work varnished inside; glass in windows.

No. 17 Annex School.—Yards repaired and glass in windows.

No. 18 Annex School.—Roof and spouting repaired; fences repaired; glass in windows; plumbing repaired.

No. 19 Annex School.— Painted inside and outside; glass in windows.

No. 1 Colored Annex School.—New board-walk.

No. 1 Engine House and No. 2 Hook and Ladder Co.—New partition wall; new roof; painted inside and outside; stalls, closets, floors and plumbing repaired; glass in windows.

No. 2 Engine House.—New roof; closets, stalls and plumbing repaired; glass in windows.

No. 3 Engine House.—Roof repaired and painted; wood-work painted inside and outside; stalls, closets and ventilators repaired; stairs changed; plumbing repaired; bunk-room papered; wainscoting repaired; glass in windows.

No. 4 Engine House.—New cement floor in engine-room; painted inside and outside; roof repaired; new drains and urinals; glass in windows.

No. 5 Engine House.—Floors, stalls, roof and plumbing repaired; roof repaired and painted; wood-work painted inside and outside; front repaired and painted.

No. 6 Engine House.—New roof; painted inside and outside; stalls, floors, roof and spouting repaired; new sash, frames repaired; glass in windows; bunk-room papered.

No. 7 Engine House.—New addition on Eutaw street; roof, stalls, floors, closets, office and plumbing repaired; glass in windows.

No. 8 Engine House.—Roof and wood-work painted inside and outside; stalls, floors, doors, windows and plumbing repaired; glass in windows.

No. 9 Engine House.—Roof repaired and painted; wood-work painted inside and outside; stalls, floors, windows repaired; new doors on front; glass in windows; walls cemented in stable; footway repaired.

No. 10 Engine House.—Roof, stalls and plumbing repaired; well cleaned; glass in windows; painted inside and outside.

No. 11 Engine House.—New roof; painted inside and outside; stalls, floors, doors and windows repaired; plumbing repaired; glass in windows; bunk-room papered.

No. 12 Engine House.—New roof; painted inside and outside; floors, stalls, plumbing and footway repaired; glass in windows.

No. 13 Engine House.—Roof repaired and painted; wood-work painted inside and outside; stalls, floors, doors, windows and plumbing repaired; two new bath tubs; drains cleaned and well emptied; bunk-room papered; glass in windows.

No. 14 Engine House.—New roof; new boiler; plumbing, stalls and walls repaired; glass in windows.

No. 15 Engine House.—Stalls repaired; doors, plumbing, roof and closets repaired; glass in windows.

No. 16 Engine House.—Repaired on outside and straightened up; glass in windows; new spouting.

No. 17 Engine House—Roof repaired; well cleaned; new doors on front; stalls repaired; glass in windows.

No. 18 Engine House.—Roof, stalls, and floors repaired; glass in windows; Chief's room papered.

No. 19 Engine House.—Roof, stalls, floors and footways repaired; glass in windows.

No. 20 Engine House.—Roof, stalls, floors and footway repaired; side alley cemented; closets and wash-stands repaired; glass in windows.

No. 21 Engine House.—Roof, stalls; floors, footways, drains, plumbing and closets repaired; glass in windows.

No. 1 Hook and Ladder Co.—Roof repaired and painted; wood-work painted inside and outside; stalls, floors and plumbing repaired; front painted and bunk-room papered.

No. 4 Hook and Ladder Co.—Roof, stalls, plumbing, closets, doors and footway repaired; front painted; wood-work inside and outside painted; glass in windows.

No. 5 Hook and Ladder Co.—Roof repaired and painted; new cement floor in engine room; plumbing and spouting repaired; stalls, floors and footway repaired; glass in windows.

No. 6 Hook and Ladder Co.— Roof, stalls, floors, doors, closets, plumbing and drainage repaired; glass in windows.

No. 10 Hook and Ladder Co.— Stalls, roof, drain-pipes, ceilings and closets repaired; Captain's room papered.

No. 1 Chemical Co.—Roof, stalls, floors, feed-room, footway and yard repaired; glass in windows and doors.

No. 2 Chemical Co.—Roof, stalls, fences and doors repaired.

No. 4 Chemical Co.—Roof, spouting, stalls, floors and doors repaired; glass in windows.

No. 5 Chemical Co.—Roof, spouting, floors, plumbing, stalls, boiler and closets repaired; glass in windows.

No. 6 Chemical Co.—Doors and stalls repaired; glass in windows.

City Hall.—Roof, tiling, doors, windows, heating and plumbing repaired; new face on clock; walls calsomined and painted; locks, springs, keys, closets and gas fixtures repaired; new elevator and approaches.

City Hall Annex—Doors, windows, locks, springs, keys and fences repaired; walls whitewashed; gas fixtures repaired.

U. S. Court House.—Elevator, doors, windows, locks, bolts, keys, springs, closets, heating, plumbing and wash-stands repaired; glass in windows and doors.

Temporary Court House.—Doors, closets, plumbing, heating, platforms, railings, locks, keys and springs repaired; glass and cords in windows and doors; footway repaired.

Polytechnic Institute, Courtland Street.—New floors in corridors; new closets; wash-stands, plumbing, footways, yards sheds, floors, steps and doors repaired; glass in windows.

Polytechnic School, Fremont Street—Roof, spouting, fence, doors, windows and stairway repaired; glass in windows.

City Morgue—Painted outside and inside; plumbing repaired, and glass in windows.

Centre Market.—Roof painted; piers repaired; spouting and pavement repaired.

Broadway Market.—Roof and spouting repaired and painted; ceilings whitewashed and side-doors repaired.

Broadway Institute.—Roof, floors, platforms, doors, windows, locks, bolts, closets, wash-stands repaired; painted inside and outside; walls frescoed; glass in windows; floors cemented, and new stoves.

Canton Market.—Roof, pavement, office and spouting repaired; supply-pipes repaired; glass in office windows.

Northeast Market.—Roof, spouting, pavement and office repaired.

Belair Market.—Roof painted; wood-work repaired and painted; roof and spouting repaired.

Lafayette Market.—Roof and spouting repaired and painted; pavement repaired.

Lexington Market.—Roof and spouting repaired and painted; wood-work painted; pavement repaired and ceilings whitewashed.

Hollins Market—Roof and ventilators repaired and painted; pavement repaired.

Hollins Hall—Painted inside and outside; walls frescoed; doors, windows, roof, plumbing, closets, wainscoting, platforms and supply pipes repaired; floors cemented; glass in windows, and new stoves.

Cross-street Market.—Roof, pavement and supply pipes repaired.

Cross-street Market Hall—Painted inside and outside; walls repaired and frescoed; locks, doors, windows, plumbing, stoves, roof and platform repaired; glass in windows.

Hanover Market.—Ceilings whitewashed, plumbing and hydrants repaired, spouting and pavement repaired.

In concluding this, my Annual Report, I will presume to say that the buildings are more than in fair condition—a comfort to the occupants, and should reflect great credit upon you, the official head of this department, for your untiring energy.

Respectfully submitted,

SOLOMON COBURN,

Assistant Inspector and Superintendent of Repairs.

Report of Superintendent of New Construction.

BALTIMORE, December 30th, 1899.

Everett J. Dowell, Inspector of Buildings:

SIR: I have the honor to submit herein a report of the work done under my supervision since May 1st, 1899, at which time I took hold of the new duties you assigned to me.

During the month of January the following schools were found to be in a dangerous condition because of inadequate protection against fire. The joist of the floors being on the heat-flue walls, and in many instances the joist ran into the smoke flues, a careful examination revealed the fact that in a number of instances the joist were found charred almost to a coal.

No. 40 Primary, Eastern and Montford avenues.
No. 3 English and German, Baltimore street, near Aisquith.
No. 29 Grammar, Eden and Federal streets.
No. 13 Primary, Patterson Park avenue and McElderry street.
No. 39 Primary, Carrollton and Riggs avenues.
No. 2 Grammar, Broadway and Bank street.
No. 11 Primary, Gilmor and Mosher streets.
No. 32 Primary, Guilford avenue and Lanvale street.
No. 33 Primary, Light and Clement streets.
No. 30 Primary, Hollins and Monroe streets.
No. 15 Grammar, Carrollton avenue and Lexington street.
No. 5 English-German, Charles and Ostend streets.
No. 3 Colored, Hill near Sharp street.
No. 14 Primary, Linden avenue and Wilson street.
No. 11 Grammar, Broadway and Jefferson street.
No. 5 Primary, Broadway and Ashland avenue.
Colored High School, Saratoga near Charles street.

There has been placed in the following schools the most improved system of sanitation of our day, taking the place of

the antiquated system of wells, and brick and frame closets, with their attendant open iron urinals from which offensive odors were omitted, making them dangerous to the children's health.

No. 2 English and German School, Ostend and Charles streets, with 969 scholars enrolled.

No. 3 Primary, High street, with 865 scholars.

No. 4 English and German, Chase and McDonogh streets, with 1266 scholars.

No. 5 Primary, Broadway and Ashland avenue, with 766 scholars.

No. 6 Grammar, Division street, with 728 scholars.

No. 12 Grammar, Ridgely st., with 683 scholars.

No. 20 Primary, Preston and Eden streets, with 1560 scholars.

No. 40 Primary, Eastern and Montford avenues, with 573 scholars.

No. 11 Grammar, Bond and Jefferson streets, with 713 scholars.

The merits of this system (in my opinion) cannot be overestimated. Since their completion I have watched them with great interest. Their complete sanitary features are so far beyond anything that has been in vogue in our schools in the past, that they are the admiration of the public.

The system consists of from one to ten closets bolted together with water-tight joints and one flushing-tank, so simple in design as to admit of the adjustment to flush the closets at regular intervals of from one to four minutes as desired. Each one is partitioned from the other, affording necessary privacy, and each has its own ventilation from front to back, passing into a duct and then into an air shaft heated by stack heaters. The boys' apartments are fitted with slate urinals, ventilating ducts and vent shafts, and the floors of each have been cemented and ceiling plastered, thus preventing any saturation that would have a tendency to produce unpleasant odors. Each system has been placed in the basement of the

schools, and wherever practical, entrance has been made from within as well as from the yard—this feature protects the children from inclement weather and saves many a cold.

At No. 20 Primary School, in addition to the system above described, there has been erected a well-ventilated cloakroom.

Also at No. 10 Primary School a commodious cloakroom has been erected, and a portion of the blank brick wall taken out and glass substituted in its stead, affording much needed light, and doing away with the necessity for burning gas during the sessions of the school.

The front entrance of No. 6 Engine House has been improved by increasing its width, its former narrowness occasioned much annoyance.

A neat two-story addition has been made to No. 7 Engine House, adding to the capacity of the sitting and bath-rooms.

The lower section of Broadway Market has been paved with granolithic.

In addition to the work above enumerated, a number of our schools and engine houses have had sundry repairs, all of which have received attention at my hands.

Respectfully submitted,

ROBT. H. BEAUCHAMP,

Superintendent of New Construction.

Report of Inspector of Furnaces.

DEPARTMENT OF BUILDINGS—CITY HALL.

BALTIMORE,, December 30th, 1899.

Everett J. Dowell, Inspector of Buildings:

SIR—I have the honor to make herewith my annual report as Inspector of Furnaces for the year ending December 31, 1899.

The number of permits issued to erect furnaces from January 1, 1899, to December 31, 1899, was twelve hundred and fifty-one (1251); the number of furnaces erected and found to conform to law, ten hundred and seventy-one (1071); furnaces condemned and defects ordered remedied, one hundred and fifty-three (153); furnaces yet to be passed upon, twenty-seven (27); old furnaces and heating apparatus inspected, one hundred and fifty (150); furnaces and heating apparatus in old school buildings and their branches examined from time to time and reports made to School Board when requested, seventy-five (75).

The increasing number of fires from heating apparatus is due to the improvements made in heating capacity. The fire which occurred at No. 323 West Baltimore street on December 26, 1899, was caused by the great degree of heat produced by a new and improved heater. The heat from the smoke-pipe which enters a brick flue was so intense that it radiated through a four-inch brick wall and set fire to a washboard resting against it. Wood work ought to be kept at least two inches in every direction from the smoke-flue.

The fires that occur from open-grate fireplaces in old buildings are due to the wood work under and in front of them. To avoid danger the fireplaces should be arched over with

brick or some fireproof material, and metal laths placed under them where the ceiling is plastered. The necessity for this is proved by a specimen of wood which I obtained from a situation where a piece of scantling crosses the chimney jamb under the fireplace fifteen inches from the hearth.

The dilapidated condition of the heating apparatus in the public schools has made it necessary to increase the number of new heaters, and to have more repairs to the old than in any previous year. The careful inspection which has been given the heating apparatus has resulted in the readjustment of pipes and the removal of wood work in too close proximity to smoke-flues in many dangerous situations. This has added greatly to the safety of the buildings and the comfort of teachers and pupils.

Respectfully submitted,

N. B. Shorey,

Inspector of Furnaces.

ANNUAL REPORT

—OF THE—

INSPECTOR of GAS & ILLUMINATING OILS

—TO THE—

Mayor and City Council of Baltimore

—FOR THE—

FISCAL YEAR ENDING DECEMBER 31, 1899.

BALTIMORE:

WILLIAM J. C. DULANY COMPANY, PUBLIC PRINTERS.

1900

REPORT.

OFFICE OF INSPECTOR OF GAS AND ILLUMINATING OILS,

CITY HALL.

BALTIMORE, January 1, 1900.

To Hon. Thomas G. Hayes, Mayor, and City Council:

GENTLEMEN: According to the law governing this office, I have made a weekly report of the quality of both the product of petroleum, used for illuminating purposes, and the standard candle-power of gas served by the Consolidated Gas Company. A retrospect shows that flashing point of the petroleum has materially increased over the legal standard of 120° Fahrenheit; hence there were no inferior oils sold, and consequently no prosecutions.

I was somewhat embarrassed by the provision of the New Charter, which made material changes in the quality and kind of petroleum products that were to be sold in Baltimore City. It lowered the flashing point from 120° Fahrenheit to 110°, which experience has shown was too dangerous for all practical purposes, and absolutely prohibited the sale of all other petroleum products that flashed under that temperature. As it stood, gasoline, benzine, etc., which are largely consumed in the arts and manufactures, could not be sold in the ity. Illuminating gas could not be manufactured, and

thousands of the population would have been brought to want, as their occupations would have been lost. After a consultation with the late Mayor and Mr. Semmes, the law officer, the original ordinance was re-enacted.

I am pleased to state that the lamp accidents were reduced to eleven this year, against twenty-one last year; all were of minor importance, excepting one—a fatal ending—a lady attacked with epilepsy, carrying a lighted lamp, fell on the steps of her residence, broke the lamp, the contents ignited, burning her beyond recovery.

Tabulated Coal Oil Accidents by Month:

January	2
February	1
March	None.
April	2
May	None.
June	None.
July	2
August	1
September	None.
October	1
November	1
December	1

The illuminating gas served to the city maintains the same standard of purity and photometric value of former years. By the mode of purification, the sulphur and ammoniacal matters have been reduced to traces. The standard is rated to a consumption of five cubic feet per hour compared by the consumption of 120 grains of a standard sperm candle, as recognized by the London, England, gas referees.

The following tabulated statement, by months, gives the highest and lowest readings with the average.

	Highest.	Lowest.	General Average.
January	28.67	23.69	26.13
February	29.80	21.00	25.86
March	31.82	28.49	30.15
April	33.66	27.55	31.15
May	28.80	26.20	27.26
June	30.00	26.27	28.43
July	28.60	27.00	27.64
August	30.00	26.70	28.43
September	27.70	25.62	27.27
October	32.86	25.93	28.81
November	29.70	27.10	24.14
December	28.00	24.74	26.52

Respectfully submitted,

P. B. WILSON,

Inspector of Gas and Illuminating Oils.

PRELIMINARY REPORT

—OF THE—

MUNICIPAL LIGHTING COMMISSION

—OF THE—

CITY OF BALTIMORE.

—CONSISTING OF—

JACOB H. HOLLANDER,
CHARLES E. PHELPS, Jr.,
EDWIN G. BAETJER.

CREATED BY

Joint Resolution of the City Council,

Approved January 4th, 1900.

BALTIMORE:
WM. J. C. DULANY CO., CITY PRINTERS.

1900

PRELIMINARY REPORT

—OF THE—

MUNICIPAL LIGHTING COMMISSION

To the Honorable the Mayor and City Council of Baltimore:

The resolution of the Mayor and City Council of Baltimore providing for the creation of the Municipal Lighting Commission, directs the Commission, in advance of its principal report as to the expediency of establishing a municipal lighting plant, to make a preliminary inquiry and report with reference to—

1st. The price paid for electric and gas lighting by cities having a population equal to or greater than that of Baltimore.

2d. The existing system of lighting in the City of Baltimore, and the best method of effecting an immediate reduction in cost by other means than the establishment of a municipal lighting plant.

The statement now submitted is intended for the preliminary report referred to, and is not intended to express any opinion of the Commission as to the expediency of establishing a municipal lighting plant. The Commission is now engaged in this latter inquiry, but it requires a more extended investigation than it has been possible to make in the short time which has elapsed since the appointment of the Commission.

I.

THE PRICES PAID FOR GAS AND ELECTRIC LIGHTING BY OTHER CITIES OF THE UNITED STATES.

The Commission has not only ascertained the prices paid by the cities of New York, Philadelphia, Boston, Chicago and St. Louis, the cities included within the terms of the

ordinance, but also the price paid by twenty-eight other cities having a population greater than one hundred thousand. The information relating to the two classes of cities has, however, been separately tabulated. The information in each instance has been obtained from the appropriate municipal departments in the form of replies to a series of questions asked, and has been supplemented, wherever possible, by official reports. All information has thus been obtained from official sources.

Except in the case of the electric service of the cities of Chicago, Detroit and Alleghany, and the gas service of Richmond, the public lighting of the cities reported upon is done under contracts with private corporations. The contracts are in a variety of forms, and usually provide for a gross sum for the various services involved in public lighting. In order that the price paid elsewhere may be properly compared with Baltimore prices, it has been found necessary to analyze the gross prices and ascertain the amount paid for the several portions of the service which are separately paid for in Baltimore.

This information is set forth in the Tables appended to this report. Explanation of any peculiar local conditions properly considered in connection with the various Tables is given in the following paragraphs:

EXPLANATION OF TABLES.

Tables I and II are tabulations of answers to inquiries addressed to the five cities equal to, or greater than, Baltimore in population, and to the cities smaller than Baltimore, but having more than 100,000 population; data as to gas and electric lighting in Boston were secured from the report of the Board of Gas and Electric Commissioners of Massachusetts, and from the contract between the City of Boston and the Boston Electric Light Company respectively. Data from all other cities were compiled from replies to inquiries supplemented by reports of the city's lighting department whenever available.

Gas charges are given for both public and private consumption. Electric light charges are, however, solely for public service, as data relating to private contract rates are not in any way available.

Table III is a summary of lighting charges in Baltimore from 1881 to 1899, inclusive, a period of nineteen years. Reference to this table will show the number of each class of lamps—gas, electric and oil—paid for by the city during that time. The first electric lights were put in operation on June 1, 1882. The cost and price per lamp is given for oil and electric light as totals, while for gas it has been possible to separate the charges into the amount paid the gas company for the gas supply, the cost of lighting the lamps, and the expense of maintenance, including repairs and renewals. These three items make up the total cost of gas lighting. The table also shows the rates paid each year for gas per 1,000 cubic feet and for electric lighting per lamp, both per year and per night; also, the total amount expended each year for all public lighting—oil, gas and electric.

Tables IV and V are deduced from Tables I and II, and show gas and electric charges respectively in cities larger than Baltimore, while Tables VI and VII are similar tabulations for cities smaller than Baltimore, but greater than 100,000 in population.

GAS-LIGHTING.

The data presented as to gas charges are based mainly upon a contract price per lamp per year, in some cases including all the three items of expense, viz: (1) gas supply, (2) lamp lighting and (3) maintenance; in others sometimes one and sometimes two of the items. Where complete data have not been supplied for the three items, the one not supplied is deduced from Table III, viz: the cost of fulfilling that item of service in Baltimore. The data from Table III thus employed to complete the data in Tables IV, V, VI and VII are first, the cost of lamp-lighting per year in Baltimore for 1899, which is $9.50 for either Welsbach or the ordinary five-

foot street burner; second, $12 per year for royalties and maintenance of Welsbach burners; third, for the maintenance of the five-foot burner, use has been made of the average charge for repairs and renewals in Baltimore before 1896, the date when Welsbach burners were first regularly employed; this average price is $1.98 per light per year. In only one city among those considered, Providence, R. I., was there any automatic system of lamp-lighting in vogue. In every other case lamp-lighting was done by hand.

Philadelphia, until 1898, owned and operated its own gas plant, furnishing gas for private consumption at $1 per 1,000 cubic feet. At that time it was leased to the United Gas Improvement Company for thirty years, the city to receive gas for public lighting free within a stated amount, and the price to private consumers to be 90 cents per 1,000 cubic feet until 1908, 85 cents until 1913, 80 cents until 1918 and 75 cents until 1929, or the city to receive the equivalent in a cash bonus. Owing to the obscurity surrounding the production of gas in Philadelphia, and the complex relation existing between public and private interests, the situation is not deemed helpful or reliable for comparison with Baltimore conditions.

St. Louis pays $37 per lamp per year under a contract made in 1875 and still in force. At the rate charged private users in 1899 ($1), the gas supply would cost $17.68, lamp-lighting $9.50, maintenance $1.98, making a total cost per lamp per year of $29.16, or for Welsbach lights under Baltimore conditions as to labor charges, a total cost per lamp per year of $29.60.

In Boston the affairs of gas-producing corporations are subject to supervision and regulation by a State Board of Electric Light and Gas Commissioners, who have access to the books of such companies. Gas is furnished by all companies at the rate of $1 per 1,000 cubic feet. Beyond the fact that local conditions in the commercial production of gas are not favorable as compared with Baltimore, there is nothing of peculiar interest in the Boston situation.

A flat rate for public and private consumers prevails in New York ($1.10) and in Chicago ($1.00). In the opinion of your Commission these rates can properly be compared with the rate prevailing ($1.25) in Baltimore. Such a comparison will not be a discrimination against this city by reason of less favorable local conditions here.

ELECTRIC LIGHTING.

Charges for electric lighting, as given in Tables V and VII, are based upon the kilowatt energy consumed in the lamp (plus a reasonable allowance for loss in transmission), an average consumption of 0.5 kilowatts per 2,000 and 0.35 kilowatts for a 1,200 rated candle-power lamp, and the price per light per year.

All street lighting is by overhead connections in Baltimore at a price per light of 35 cents per night, or $127.75 per year. Lights failing to burn one hour are rebated from the bill as for the entire night. Outages are reported by the police to the General Superintendent of Lighting.

In nearly all other cities, as given in Tables V and VII, light connections are principally underground. In New York the connections are through space in conduits leased from a private corporation at a yearly rental of $1,000 per mile of single duct. This creates a heavy fixed charge, which the city of New York is compelled to share with the electric companies, and explains in large part the high price prevailing there as compared with Baltimore.

Philadelphia owns a considerable amount of conduit and electric lighting cables, through which a part of its public lighting is done. No charge is made for underground connections when serving street lights. It also owns overhead wires and poles and charges 50 cents for each attachment to a pole and $2.50 per mile of wire. Philadelphia has nearly as many electric street lights as New York and Chicago combined.

Street lighting connections in Boston are mainly underground, and the city has entered (August 19, 1898) into a ten-

year contract for its lighting at a price of 35 cents per night for the present number of nights, reducing it to 30 cents per night, or $109.50 per year, when lights increase in number to 5,000.

Service in St. Louis is partly overhead and partly underground; the price, $74.95 per year, or 20½ cents per night per light, is the same for both classes of service.

Two large cities, Chicago and Detroit, own and operate municipal electric lighting plants, with both underground and overhead connections. One of the smaller cities, Alleghany, Pa., also operates a municipal plant. No conclusive result may be given as to the cost of supplying street lights in these three cities until the matter can be studied more exhaustively than the time at hand has permitted.

II.

THE LIGHTING SYSTEM OF BALTIMORE.

By Ordinance No. 76, approved May 10, 1871, the City of Baltimore entered into a five-year contract with the Gas Company for street lighting at a rate of $2.50 per 1,000 cubic feet. This price apparently continued at the same figure until, in 1879, it was reduced to $2.25. The next contract between the city and the gas company, as far as may be gathered from existing records, was entered into May 1, 1880, for a term of five years, at $1.85. During a portion of the term covered by this contract the city apparently paid more for public gas supply than was paid by private consumers This was the last contract entered into by the city for gas supply. By reference to Table III will be seen the common rates since paid for gas by the city and by private consumers.

At the expiration of the last-mentioned contract (May, 1885) the city paid for its lighting at the rate of $1.50 per 1,000 cubic feet. In 1886 competition began between the Consolidated, Equitable and Chesapeake Gas Companies, and the rate varied from $1.50 on lines where there was no competi-

tion to 50 cents in areas covered by mains of all three companies. This continued until November 1, 1887, when a general consolidation of the three companies restored the figure to $1.50, which obtained prior to competition. The present rate of $1.25, fixed by legislative enactment, went into effect January 1, 1888, and there has been no variation in this rate since that time. In Table III the figures in line 4, under "cost of gas supply," are the amounts paid annually by the city to the gas company. From and including the year 1888 the figures are for city proper and annex.

Electric lights were first introduced on the streets of Baltimore on June 1, 1882, when the city entered into a five-year contract with the Brush Electric Company for 225 lamps of 2000-candle power each at a rate of 70 cents per light per night. At the expiration of this contract the price was reduced to 50 cents; on July 1, 1889, to 40 cents, and on July 1, 1890, a new contract was made, and has since been renewed from time to time at the present rate of 35 cents per light per night. The present contract expires September 7, 1900.

There was thus a steady reduction in the price of electric-lighting from 1882 to 1890, since which time the rate has remained fixed. Likewise with gas charges, reductions ceased with the year 1887. The rate has since remained at the same figure for twelve years.

At the present time there are three methods or systems of public lighting employed in the City of Baltimore, viz., gas lamps, electric arc lamps and gasoline lamps. The character, extent and cost of each system from 1882, the date of the introduction of electric lights, is shown in the appended Table III. Reference to this table shows the number of lights of each class and the amount paid therefore by the city. The cost price per lamp is given for oil and electric as totals, while for gas it has been possible to separate the charges into the amount paid for gas supply, the cost of lighting and the expense of maintenance and repairs. These three items make up the total cost of gas-lighting.

GAS-LIGHTING.

The gas-lighting of Baltimore consists of three distinct services: The Consolidated Gas Company furnishes the gas; the city lamp-lighters light and extinguish the lamps, and the Welsbach Company supplies and maintains its patented burners and devices.

The gas is furnished at the same price to the city as to private consumers—$1.25 per 1,000 cubic feet—and without any contract; the consumption of the gas lamps is fixed by the average consumption of seventy meters, which are read monthly by the employees of the city and the gas company.

The lights are lighted and extinguished by lamp-lighters employed and paid by the city; 149 men are employed for this purpose and paid at the regular price of municipal laborers, $10 per week; one hour is allowed each lamp-lighter to light the lamps, and somewhat less time to extinguish them. Prior to the introduction of the Welsbach system the lamp-lighters were required to maintain and clean the lamps; this service is no longer required of them.

The Welsbach Company supplies its special patented burners and devices, and maintains them as well as the entire upper lamp structure, under a contract for $12 per lamp per year; this contract expires March 1, 1901.

The cost to the city for the year 1900 for lighting will be as follows:

	Cost per lamp.
Gas supply	$10.13
Lamp lighting	9.50
Welsbach Company	12.00

Your Commission considers that the whole system of public gas lighting in Baltimore is unnecessarily costly. It is clear that the price of gas to the city should be less than that to private consumers. The city uses many times as much gas as the largest private consumer, only seventy meters are required to be supplied, maintained and inspected for 6,232 lamps consuming gas which cost in 1899 more than $108,000; there is no

loss for bad debts, the clerical labor and office expense is scarcely more for the whole city consumption than for the smallest private consumer. All these considerations make the cost to the Gas Company of the city's supply decidedly less than that of private consumers of an equal amount. The extent of the saving thus effected for which the city can properly claim reduction in price is a matter for careful determination requiring larger powers of summons and inquiry than those possessed by your Commission.

The public lighting of Baltimore is more expensive than that of any city of equal population, except St. Louis, where the public lighting is still done under a contract made twenty-five years ago. Taking Baltimore as unity in each instance, the prices of public lighting as shown by Table IV are as follows:

Baltimore	1.000
New York	.663
Chicago	.695
Philadelphia, one portion	.640
" " "	.365
St. Louis	1.170
Boston	.936

The Welsbach system being of recent origin, there are no data with which the local charge can be compared. The Welsbach service has very largely increased the quality and efficiency of lighting in Baltimore without increasing the aggregate charge. At the same time it should be borne in mind that the price for the system for the past years in Baltimore included the cost of installation, the installation having now been completed and maintenance only being necessary, the annual charge should be considerably reduced.

The work of lighting lamps and of maintaining the Welsbach service is of similar character and might advantageously be consolidated, or the lighting might be undertaken by the gas company, as is done in twenty-one out of twenty-five cities shown on Table I; or it might be combined with some other branch of the public service, as the Police Department.

If the present system of city lamp-lighters is to be maintained, the cost should be greatly reduced from the present rate of $10 per week for a service of practically two hours per day.

The price of gas to private consumers in the cities having a population equal to or greater than that of Baltimore is uniformly less than that in Baltimore, as shown by Table I. These prices are as follows:

Baltimore	$1 25
New York (in competitive districts)	65
" (" non-competitive districts)	1 10
Chicago	1 00
Philadelphia	1 00
St. Louis	1 00
Boston	1 00

In the twenty other cities shown on Table VI, the price is less than the price in Baltimore, except in the case of San Francisco and Providence.

The Commission has, as yet, been unable to ascertain the actual cost of production and distribution to the gas company in Baltimore City; the request of the Commission to the gas company to supply a statement of such cost was without result, and the Commission is without power to enforce this request. The Commission is, however, of the opinion that the actual prices paid by the above-named cities are, from the point of view of the Consolidated Gas Company, more than fair standards of comparison, and that the rate prevailing in Baltimore is relatively high.

Local conditions in Baltimore are such as practically favor economical production. The chief variable factors in the production of gas are coal and labor. Both coal and labor are probably cheaper in Baltimore than in any of the large cities except in St. Louis.

The Commission is further of the opinion that any alleged difference in candle-power of gas furnished in Baltimore is not sufficient to account for the difference in price. Practically the same process is used in all large cities; even if the cost of materials used to increase the candle-power should

vary with the candle-power produced, the total cost of such material forms so small a proportion of the total price charged as to account for but a trifling proportion of the difference in the price.

In comparing local conditions, no account has been taken of excessive capitalization nor the responsibility of the public therefor. This is a condition which prevails to greater or less degree in all of the large cities. The specific facts are matters of private record, entirely inaccessible to the Commission, while the extent to which allowance should be made therefor is a matter for legislative determination.

ELECTRIC LIGHTING.

The electric lighting of Baltimore is furnished by the United Electric Light and Power Company under a one-year contract, which expires September 7, 1900. The number of arc lights used for city lighting is 1,391; the total cost of the serviec is $127.75 per year, making a total of $175,098.95. In response to the request of the Commission, it was stated that no statistics are available in the office of the company at the present time from which the cost or profit of the lighting furnished in the city can be ascertained.

The prices paid by other cities of equal or greater population than Baltimore, as shown in Table II, are as follows:

	Underground Lines.	*Overhead Lines.*
Baltimore	.....	$127 75
New York	$125 to $182 50	.....
Philadelphia	111 32	.....
Chicago	137 50	103 00
St. Louis	74 95	74 95
Boston	127 75	.....

In the case of the electric service, as well as in the case of the gas service, local conditions, such as coal and labor, overhead construction, etc., are favorable to economical production. To what degree the extent and character of the local demand for electrical service influences cost of production is uncertain.

The relative cost of the public electric lighting service of the large cities as shown in Table V, and taking Baltimore as unity, is as follows:

Baltimore	1.000
New York	1.770
Chicago	0.837
Philadelphia	0.884
St. Louis	0.600
Boston	1.017

In considering the above comparison, it must be borne in mind that Baltimore and Chicago are the only cities in which prices are based entirely upon overhead connection; in the other cities prices are for service mainly underground.

The report of the Commission appointed to investigate the charges in Boston, in comparing the cost in Boston and Baltimore in 1898, the gross price being the same, estimated the $127.75 paid in Baltimore as equal to $154.08 under Boston conditions; such a calculation is full of uncertainties, but it can be safely assumed that the local conditions are at least as favorable as those in the cities mentioned.

On the whole it seems to your Commission that the price paid by Baltimore for public electric lighting is high, both relative to the prices prevailing in other large cities and to the actual cost of supplying such service. The fact that there has been no reduction in the price paid by the city within the past nine years, despite the large reduction in the real cost of such service within the same period, would seem to confirm such an impression. In the investigations which your Commission have thus far made, it has been found that a municipal lighting plant could supply arc light service in Baltimore at a price not exceeding $80.00 per arc light per year, including all items in operation and distribution and all fixed charges.

III.

METHODS OF REDUCING THE COST OF PUBLIC LIGHTING.

The City of Baltimore is not embarrassed in making any changes in its lighting system because of existing contracts. The only contract in existence with reference to gas lighting is that of the Welsbach Company, which expires March 1, 1901. The contract for electric lighting expires September 7, 1900. There are no contracts relating to the gasoline lamps except for 1900 to supply gasoline.

The courses open to the city to obtain a reduction are as follows:

1st. Competition. There are at present no competitors of the companies furnishing gas or electric lights in the City of Baltimore. The Consolidated Gas Company and the United Electric Light and Power Company have a monopoly of their respective business. The Commission is strongly of the opinion that open competition in services of the character rendered by the two companies mentioned can eventually have no other effect than to increase the price. This is the uniform experience of every city; a temporary reduction may be made, to be certainly followed by a consolidation and an increase in the price to compensate for capital uselessly invested and money lost in the brief period of competition.

The Commission does not mean that the existing companies, which now perform the lighting service without competition, should be left free to fix the rates as their own interest may dictate, but that of all possible solutions of the municipal lighting problems unrestricted competition is the least advisable. If, however, it should be found impossible to obtain any necessary regulation by the Legislature, or by a body to which it may delegate the power, and if the erection of a municipal plant should be found inexpedient, then it may be necessary to have recourse to new companies in order to secure reductions in price or improvements in character of service. If the grant of privilege to new companies thus becomes neces-

sary, the franchises should be granted only on such terms as will insure to the city a fair return, not only for the present, but also for its future value. Such a provision should be made either by a reservation to the city of a share of the gross profit earned (including in profits the interest paid by any such company on any bonded debt) with a further provision for a limitation of the maximum profit to be earned and a reduction of charges for service when the profits exceed the maximum fixed.

2d. Contracts for a reasonable period with existing companies.

No matter what system of lighting the city may hereafter adopt it is certain that the present varied and disconnected arrangements for gas and electric-lighting are the most expensive of all possible methods. The city, although the largest user of the various services supplied by the companies, obtains its service at practically retail prices.

The short terms of the contracts with the Consolidated Gas Company, the Welsbach Company and the United Electric Light and Power Company make the rates higher than could probably be obtained from any of the companies if contracts for any reasonable length of time were entered into for the service. The Commission is, however, of the opinion that contracts must be let with caution until the city has determined definitely whether or not it will adopt any other system of street lighting.

3rd. Reduction of price by legislation.

The power to regulate the price charged for lighting, both public and private, and to reduce the cost, if unreasonable, is now exercised by the Legislature of this State. The power of the Legislature for this purpose is ample and fully sustained by decisions of the Supreme Court of the United States. The only limitation on the power of fixing rates for services of this character is that the rate fixed must be sufficient to enable the company to earn its operating expenses and a reasonable rate of profit. The reasonableness of the profit is to be determined with reference to

the *value* of the company's plant, exclusive of any franchise value. Its capitalization, whether in bonds or stock, is for this purpose immaterial; nor is it material whether the rate fixed prevents the earning of interest on its bonded debt or capital stock. If the rate fixed allows a reasonable profit on the present *value* or cost of reproducing the company's plant, it is within the power of the Legislature. No decision has fixed the rate or percentage of profit on the value; one decision has suggested that a rate allowing 4 per cent. would not be interfered with, but the rate would depend on the hazard of the business and ought to be a rate sufficient to attract capital to a new enterprise formed for that purpose.

Attempts at regulation by the Legislature itself of the prices to be charged for services, are usually ineffectual. The books and affairs of the company are private, not open to public inspection and supervision; the information necessary to enable the Legislature to judge of the fairness of the rate charged can be obtained even from the company's own records only by experts and after very considerable study and investigation. The regulation, to be effective, must provide not only for a regulation of the price to be charged, but also for the character and kind of service to be rendered, and these regulations must extend to matters of detail and must be constantly revised and changed. These are matters for which both expert skill and knowledge and constant supervision are necessary.

Questions of this character the Legislature, both on account of its organization and the limited time at its disposal, is not qualified to determine with justice either to the public or to the companies involved.

For the protection of all interests the power to regulate should be vested in a body of public officials, with full powers of investigation and supervision, and with power to command such expert assistance as may be necessary to enable it to fairly discharge its duties, or the whole power of regulating corporations performing quasi-public functions in the City of Baltimore should be vested in the Mayor and City Council, with full power to provide for its effective and proper exercise.

4th. The establishment of a municipal plant.

The Commission has not yet completed the investigation necessary to enable it to reach a conclusion as to the advisability of the establishment of a municipal electric lighting plant.

If the city should determine to erect a municipal lighting plant it is important that there should be no delay in its projection. Inasmuch as the establishment of such a plant requires the issue of city stock for the purpose of obtaining money to defray the cost of ereetion and installation, and as such an issue must be authorized by the Legislature, necessary legislation must be procured from the Legislature now in session or a delay of two years would be entailed.

The lighting service is an absolute necessity in the city, and can be obtained only from companies enjoying an absolute monopoly in their respective businesses. The city, although alone concerned with the character of the service and the price charged is (except by application to the Legislature) without power to obtain a change in price or service, or to ascertain accurately whether these are proper or otherwise. In this situation the mere present ability to provide a lighting plant would be a material protection.

Accordingly your Commission, while refraining at this stage of inquiry from asserting that a municipal lighting plant is desirable, have made careful study of the maximum cost of establishing such a plant in order that enabling legislation may be obtained from the present Legislature. By this means the city will not only be put in a position to proceed without needless delay if municipal construction be deemed expedient, but will distinctly improve its strategic position in negotiations for cheaper service with the present lighting companies. The amount required for the erection of a municipal electric lighting plant adequate for the present needs and for the reasonably anticipated future needs of Baltimore is $1,350,000.

IV.

RECOMMENDATIONS.

The Commission therefore recommends:

1st. That the city procure from the Legislature the power to regulate and control the price to be charged and the service to be rendered by companies engaged in furnishing light in the City of Baltimore, or the appointment of a properly constituted commission, in which such powers of regulation and control shall be vested. Two measures for the latter purpose are now pending in the Legislature.

2d. That the city procure from the Legislature an Act authorizing it to issue stock to the amount of $1,350,000 to provide funds for the erection of a municipal lighting plant so that in the event of its determination to erect a plant the delay of two years will be avoided.

A draft of an Act for this last purpose also accompanies this report.

All of which is respectfully submitted.

JACOB H. HOLLANDER,
CHARLES E. PHELPS, Jr.,
EDWIN G. BAETJER,

Municipal Lighting Commission of the City of Baltimore.

BALTIMORE, February 20, 1900.

An Act to Authorize the Mayor and City Council of Baltimore to Issue the Stock of said Corporation to an amount not exceeding One Million Three Hundred and Fifty Thousand Dollars, for the purpose of Providing a Public Lighting Plant to Supply Light to said City and to the Inhabitants thereof, and to Authorize the Submission of an Ordinance for that purpose to the Legal Voters of said City.

SECTION 1. Be it enacted by the General Assembly of Maryland, That the Mayor and City Council of Baltimore be and is hereby authorized to issue its stock to an amount not exceeding one million three hundred and fifty thousand dollars, to be issued from time to time in such amounts, and payable at such time, and bearing such rate of interest, as the said Mayor and City Council of Baltimore shall by ordinance prescribe. The proceeds of said issue to be used to provide a public lighting plant to supply the said city and the inhabitants thereof with light, but said stock shall not be issued unless the Mayor and City Council shall by ordinance determine to erect and equip such public lighting plant, and unless the ordinance providing for the issue of said stock shall be approved by a majority of the legal voters of said city, cast at some time and place to be fixed by said ordinance in a provision for submitting the same to the legal voters of said city, as required by Section 7 of Article 11 of the Constitution of this State.

SEC. 2. Be it further enacted, That this Act shall take effect from the date of its passage.

TABLES.

TABLE I—GAS LIGHTING.

		No. of Gas Companies under Contract to Light Streets.	No. of Gas Companies Operating.	No. of Gas Lights. Ordinary Burners.	Welsbach Burners.	Gasoline or Naphtha Burners	Special Burners.	No. of Hours Lights Burn Annually.	Gas Lamps Maintained By.	Gas Lamps Lighted By	Method of Lighting Lamps.	Price Paid by City.	Price paid by Private Consumer.	Basis of Charge to City	Rebates Allowed for Lights not Burning	Charges for Extra Connections	Rated Consumption in Street Burners Per Hour.	Remarks
Equal or Greater Population than that Baltimore	1 Baltimore, Md	1	1		6232	1085		3537	City.	City.	Hand	$1 25 per 1000 cubic feet.	$1 25 per 1000 c. f.	Meter.		Per connection.	3 feet.	
	2 New York, N Y	6	7	21,187	4026	1583	Wels., 419	4000	Gas Co —City's exp.	Gas Co.	Hand.	$12 00 13 41½ 17 50 24 00 28 00 Per lamp per year	$ 65 / 1 10 \ Per 1000 c. f.	Per lamp, per annum.	Deduction for lamps not lighted.	$8 00 for each new lamp.	3 feet	
	3 Chicago, Ill	1	2	25,000		9800		3800	City.	Gas Co.	Hand.	Gas $20 00 / Per lamp Gasoline 14 98 \ per annum.	$1 00 per 1000 c. f.	Per lamp, per annum.	Pro rata	$10 00 per lamp.	4 feet.	Conditions same as [illegible] Municipal plant
	4 Philadelphia, Pa	2	2	19,742		14,314		4235	Gas Co	Gas Co	Hand.	$20 20 per lamp per annum from Northern Liberties Gas Co.	$1 00 per 1000 c. f.	Per lamp, per annum.	None.	None	5 feet.	Public [illegible] Municipal plant
	5 St. Louis, Mo	1	2	1,214				3287	Gas Co.	Gas Co.	Hand.	$37 00 per lamp per annum.	$1 00 per 1000 c. f	Per lamp, per annum	Pro rata	Yes.	5 feet.	Gas [illegible] Municipal plant
	6 Boston, Mass		2										$1 00 per 1000 c. f.				5 feet.	
Population 200,000 to 300,000	7 Cleveland, Ohio	2	2	5,218		In vapor 2051		3760	Private.	Private.	Hand.	For burners to consume 4½ ft. per hour. 80 cts. per 1,000 c. f.	80 cts. per 1000 c. f.	Individual—Meter. City—Per hour.	None.	Charges based on market price of material used	4½ feet	City pays everything Gross receipt tax—5½ per cent
	8 Cincinnati, Ohio	1	1	3,000	479	2530		3819⅛⅝	Gas Co.—City's exp	Gas Co.	Hand.	88 cts per 1,000 c. f	Lighting, 75c. / Per Fuel, 50c. \ 1000 c f.	Individual Meter City—Per annum	Out before 12 M., deduct whole night; after 12 M., deduct half night	New lamps and connections about $14 each	4 feet	City pays 41½ cts per lamp per month for lighting
	9 Detroit, Mich																	Municipal plant
	10 San Francisco, Cal.	1	3	4,498	22			3193	Gas Co.	Gas Co.	Hand.	$36 50 per lamp per annum.	$1 50 per 1000 c. f.	Per night.	Full rebate.	No material charged Labor at cost.	5 feet	
	11 Washington, D. C	2	2	6,520	161	1231	2½ c f 46	Gas, 3760 Naph., 3942	Contractors.	Contractors.	Hand.	$20 00 per lamp per annum. See clause No 21 of contract.	See Act of Congress 6-6-'90 Private, $1 80.	Individual—Meter City—Per annum	Pro rata	See clauses 9, 10 and 11	5 feet	See clause No 21
	12 St. Paul, Minn	1	1	2,635		2762		4000	Contractors.	Contractors.	Hand.	$23 00 per lamp per annum.			Double	Nothing for new lamps. $3 00 for removals		
	13 Pittsburg, Pa					Gasoline, 3200		4000										
	14 Newark, N J	1	1	2,015				4000	City.	Gas Co.	Hand.	$19 00 per lamp per annum.	$1 10 per 1000 c. f [illegible] dis. if paid in 5 days.	Per night	Pro rata	$6 00 for setting poles	4 feet	
	15 Minneapolis, Minn.	1	1	4,724		2916		2000	Gas Co.	Gas Co.	Hand.	$1 00 per 1,000 c. f.	$1 30 per 1000 c. f.	Meter.	Pro rata.	None.	4 to 4 25 feet	$4 00 per lamp per annum [illegible] maintainance, etc
	16 Milwaukee, Wis	1	1	2,587		Naph., 872 Oil, 76		3815	Gas Co.	Gas Co.	Hand.	5 ft. burner, $20 00 / Per lamp 6 ft. burner, 23 00 \ per annum.	Lighting, $1 00 / Per Fuel, 80c \ 1000 c f	Per night	Pro rata	None	5 and 6 feet.	
	17 Louisville, Ky	1	2			Gasoline, 1007		4000	Gas Co	Gas Co	Hand.	5 ft. burner, $14 43 per lamp per annum	Lighting, $1 30 / Lou. G Co Fuel, 75c. \	Meter	None	None	5 feet	Ky Htg Co allows 1 per cent discount
	18 Indianapolis, Ind	1	1	185		Vapor, 232		4000	Gas Co	Gas Co	Hand.	$17 00 per lamp per year	Lighting, 70c. / Ky. Htg Co Fuel, 35c \	Meter.	On vapor lights, cost per night and 20 cts. per night.	None		
	19 New Orleans, La		2			A few in markets and on outskirts							$2 23⅞ per 1000 c. f	Lighting—Meter. Heating—Contract				Gas used at one time Supplanted by electricity
	20 Albany, N Y																	No gas lamps in use
	21 Allegheny, Pa	1	1	31				4000	City	City.	Hand		Artificial, $1 25 / Per 1000 Natural, 25 \ c f	Meter	None		5 feet	Municipal plant.
	22 Denver, Col																	No street gas in use
	23 Jersey City, N J	1	2	225	210	Welsbach, 300		3850	Gas Co	Gas Co.	Hand.	$30 00 per lamp per annum.	$1 10 per 1000 c f	Individual - Meter City—Per annum.	Pro rata.	None.	3 feet.	City owns all posts.
	24 Los Angeles, Cal																	No gas used for street lighting
Population 100,000 to 200,000	25 New Haven, Conn	1	1	503	253	Naphtha, 500		4000	Contractors.	Contractors.	Hand.	$1 20 per 1000 c. f Plain burner, gas, $22 25. Welsbach burner gas, $30. naphtha burner, gas, $19 97, per lamp per annum.	$1 25 per 1000 c f	Meter	Pro rata	Labor 25c. per hour. Pipe 10c per ft exceeding 20 ft per post	4 feet	
	26 Omaha, Neb	1	1		959	Gasoline, 689		4000	O Gas Co	O Gas Co	Hand	Welsbach, $30 00 / Per lamp per Gasoline 18 00 \ annum.	$1 35 per 1000 c f	Individual—Meter. City—Per annum.	Pro rata			
	27 Paterson, N. J.	1	1	429				4000	Gas Co.	Gas Co.	Hand.	$18 00 per lamp per annum.	$1 25 per 1000 c. f. 10 per cent discount if paid on or before 10th of mo	Individual—Meter City—Per annum.	None	None	120 grams spermaceti No 1 per hour.	
	28 Providence, R. I.	1	1	785		1620		4000	City.	City.	Shaw's Automatic Gas Lighting Machine.	$1 05 per 1000 c f	$1 10 per 1000 c. f.	Estimated per hour	Full amt for time out.	None	5 feet	
	29 Richmond, Va		1	462	136		316	4000	Company.	Company	Hand	Welsbach, $18 per lamp per annum	$1 00 per 1000 c f	Per annum	None.	None	24,000 annually estimated	City furnishes [illegible]
	30 Rochester, N Y	1	1	157				4000	Gas Co.	Gas Co.	Hand.	$29 20 per lamp per annum	$1 25 per 1000 c f	Per annum	Pro rata.	None		
	31 Scranton, Pa																	No gas lamps on streets
	32 Syracuse, N Y																	No gas in [illegible] streets
	33 Toledo, Ohio	1	1						Gas Co	Gas Co.	Hand.	Free.	95 cts per 1000 c f	Meter.				
	34 Worcester, Mass		1		102	Gasoline, 1775		Wels., 4000 Gasoline, 2000	Welsbach Lighting Co	Welsbach Lighting Co	Hand	$30 00 per lamp per annum	Not known	City—Based on consumption per hour for 3 ft burner.	Pro rata.	$6 00 per post	3	

TABLE II—ELECTRIC LIGHTING.

		No. of electric companies under contract to light streets	No. of electric companies operating	No. of electric street lights 2000 c. p.	No. of electric street lights 1200 c. p.	No. of incandescent street lights giving c. p.	No. of hours lights burn annually.	SCHEDULE OF STREET LIGHTING.	REBATE FOR LIGHTS FAILING TO BURN THE REQUIRED TIME	PRICE PAID BY CITY ON OVERHEAD LINES Per Year.	PRICE PAID BY CITY ON UNDERGROUND LINES Per Year.	Charge for extra connection	REMARKS
1	Baltimore ..	1	1	1391			4000	All night—every night	If out one hour or more, light not paid for that night	$127 75	$146 00 for 2,465 lamps 164 25 " 1,116 " 182 50 " 237 " 125 00 " 574 "	None	Contract expires September 7, 1908
2	New York..	8	10		4302	110—25 c.p.,	3860	" "	If out part of night, deduct for all night; if out all night, deduct for two nights			None.	
3	Chicago	1	2	Rented 531 Munipl 3500			3850	" "	Proportionate to charge for lights..	103 00	137 50	None.	Conditions similar to those of any large city Municipal plant
4	Philadelphia	1	16	7832			4235	Sundown to sunrise	Prorata deduction		111 32½	None	Charges, 50 cts. for each attachment to city poles $12 50 per mile overhead wire, no charge for underground cables. City owns part of conduits and cables for street lighting.
5	St. Louis...	2	7	2610		300 c.p., 4210	3698	" "	Proportionate rebate	74 95	74 95	None.	Contracts expire January 31 and February 9, 1900
6	Boston	1	6	2765			3932	All night—every night	" "		127 75	None.	City owns some lamp poles Under a ten-year contract (1898) price is from 33 cts. for 2,000 c.p. lamps to 5,000 lamps.
7	Cleveland	1	1	890			3760	All night—every night	Prorata deduction of price per hour	87 50	87 50	None	An ordinance regulates the price to be charged individual consumers basing it at 12½ cts. per 100 W. hours
8	Cincinnati...	1	8	3300			4000	" "	Deduction made on prorata basis, which approximates $.022 per hour	84 90		None	City orders additional lights at any time and supervises the entire line construction Contract for eleven years from May, 1892
9	Detroit												Municipal plant.
10	San Francisco	1	3	786			3243	Burns 300 nights—½ hour after sunset, ½ hour before sunrise	Full night rebate in all cases reported	42½c. burned 127 50	127 50	None	Lights not burning nights of full moon or two nights before and after
11	Washington	2	2	658		268—25 c. p	4000	All night—every night	Prorata deduction	96 00	72 00	None	All arc lamps must be maintained on underground circuits
12	St. Paul	1	1	395			4000	" "	Double rate charged	96 00		None	
13	Pittsburg	1	1	2300			3000	Per hour	Every 10 minutes or more deducted from contract price	96 00		None	
14	Newark	1	1	1685		12—321 c. p	3800	Moonlight	Same as charged for light.....	98 55		None	
15	Minneapolis	1	1	801			2200 3600	637 lamps, " " All night—every night 173 lp's,	Prorata deduction..	84 00 108 50	84 00 108 50	None.	The city pays 3 1-10 cts. per lamp per hour for the actual number of hours the all night lamps burn, for a minimum schedule of 3,500 hours 4 2-10 cts. per lamp hour for the moon schedule lamps, a minimum of 2,000 hours. If the city had contract for larger schedule a pro rata lower rate would have been paid.
16	Milwaukee	1	1	1112			4000	All night—every night	Prorata deduction from contract price	92 00	109 00	None	
17	Louisville	1	2	1523			4000	" "	For each hour a lamp is out, a sum equal to the price of 2 hours' lighting is deducted.	84 00		None	
18	Indianapolis	1	1	1185			4000	Moonlight	None	85 00	85 00	None	
19	New Orleans	1	2	1026			3850	All night every night	Any light reported out for over one hour is not paid for that night	127 75		None	For changing location the charge based on number of poles erected
20	Albany	1	1	650			4000	All night—every night	None	124 10		None	The city cannot order beyond number fixed in contract unless their maintenance is raised by a new contract made.
21	Alleghany		1	1237									Municipal plant.
22	Denver	2	2	950			4000	All night every night	2 ⅝ cents for each lamp hour out	100 00		None	The City Fire Alarm and Signal Service reserves the right to use city poles for their wires on several thousand poles and fifty miles of wire
23	Jersey City	1	1	1320			4000	" "	Prorata deduction.....	99 00		None	Contract with city runs five years When contract which is now four years old expires there will be reduction of at least 20 per cent on new contract
24	Los Angeles		3	823			4000	" "	Prorata deduction	60 00	60 00	None	
25	New Haven	1	1		491		4000	" "	Prorata deduction ...	91 25		None	
26	Omaha		1	331		1 [illegible] [illegible] lamps	4000	" "	Prorata deduction .	114 00		None	
27	Portland		1	740			4000	" "	Prorata deduction	102 08		None	Five-year contract with Edison Company controlled by Paterson and Passaic Gas and Electric Co. Lights are put up as ordered by Board of Aldermen
28	Lawrence	1	1	1870		88—32 c. p	3000	" "	Full time and price for lights are out	127 75		None	$118 62½ per lamp from 6-15 to 6-15 for 3,500 hours; $80, 50 per lamp from 6-15 to 6-15 for 2,000 hours
29	Richmond		1		543		4000	" "	1¼ cents per hour	58 40		None	The city has contract with Richmond Railway and Electric Company to furnish 93 masts and lights as are needed at 15 cts per light The police report lights which have to be out
30	Rochester	1	3	2295	494		4000	" "	Prorata deduction	73.00 for 1,200 lamps 91 25 for 2,000 "		None	
31	Toledo	1	1	610			4000	" "	Prorata deduction	73 00		None	Considering municipal plant
32	Syracuse	1	1	1200			4000	Moonlight	None	91 25		None	
33	Troy	1	1	1100			4000	All night every night	2 cents per hour Police report	83 00	83 00	None	All bridges engine houses city offices and council chambers lighted free
34	Wheeling	1	1	647		12—32 c. p	3850	" "	32 cents per lamp per night of 10.5 hours	116 80	116 80	None	Company uses compound condensing engines. Cumberland coal, average cost $2 per ton. Pure water taken from pond

TABLE III—HISTORY OF STREET-LIGHTING CHARGES IN BALTIMORE 1881 to 1899.

	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	Estimated. 1900.
1. Number of gas lights	5,346	4,847	5,056	5,191	4,935	5,013	5,277	5,697	5,822	5,742	5,237	5,375	5,569	5,794	5,790	5,928	6,043	6,235	6,232	6,232
2. " 2,000 c.p. electric lights	.....	225	225	243	409	476	531	584	603	668	965	1,030	1,035	1,039	1,278	1,338	1,355	1,369	1,391	1,391
3. " oil lights	1,028	1,033	1,006	1,043	1,074	1,042	841	1,405	1,388	1,272	1,158	1,050	1,065	1,047	897	980	1,026	1,072	1,085	1,085
4. Cost of "gas supply"	$173,100.13	$150,550.00	$138,818.32	$135,667.98	$120,543.42	$73,483.85	$82,337.60	$131,868.80	$133,868.80	$131,525.07	$139,918.46	$127,698.44	$129,128.75	$132,896.72	$140,907.90	$139,415.11	$131,964.76	$128,919.25	$108,558.48	$63,130.16
5. " "lamp lighting"	46,680.00	48,431.40	48,864.00	48,864.00	49,385.45	51,303.00	49,514.00	54,569.12	58,484.00	$58,826.86	60,022.29	62,514.59	64,064.84	64,775.72	68,450.00	72,216.15	68,427 71	68,909.42	69,539.84	69,539.84
6. " "gas lamp maintenance"	3,430.00	1,283.15	1,656.60	15,298.71	.....	15,208.67	19,495.67	3,443.21	7,979.24	4,957.74	1,309 66	20,694.11	30,666.79	25,622.29	15,898.76	8,792.37	15,113.30	14,868.77	29,188.85	74,784.00
7. Total cost of gas lighting	$223,210.13	$200,264.55	$189,338.92	$199,830 69	$169,928.87	$139 995.52	$151,347.27	$189,881.13	$200,332.04	$195,309.67	$201,250.41	$210,907.14	$223,860.38	$223,294.73	$225,256.66	$220,423.63	$215,505.77	$212,697.44	$207,287.17	$207,454.00
8. " electric lighting	.....	21,959.95	57,487.50	58,156.70	78,575.00	110,457.20	107,087.80	103,298.12	98,593.10	85,280.12	102,783.60	124,374.35	121,658.49	126,783.24	141,694.26	165,991.33	172,420.22	173,855.55	175,098.95	175,098.95
9. " oil lighting	22,534.45	21,304.99	21,999.19	21,977.09	21,241.52	22,445.52	25,982.38	22,181.42	19,073.38	16,249.03	19,791.35	12,670.57	12,936.48	12,906.92	13,088.14	14,237.37	13,750.88	12,997.20	13,371.25	13,371.25
10. Cost of "gas supply" per light per year	$32.36	$31.07	$27.33	$26.14	$24.43	$14.66	$15.61	$23.15	$23.00	$22.91	$26.72	$23.76	$23.19	$22.94	$24.34	$23.52	$21.84	$20.68	$17.42	$10.13
11. " "lamp lighting" " "	7.32	8.24	8.06	7.84	8.22	8.48	8.09	7.70	8.11	8.40	9.40	9.73	9.66	9.50	10.24	10.45	9.70	9.43	9.50	9.50
12. " "maintenance" " "	.64	.27	.33	2.95	.....	3.03	3.70	61	1.37	.86	25	3.85	5.01	4.42	2.74	1.50	2.50	2.39	4.68	12.00
13. Total cost per gaslight per year	$40.32	$39.58	$35.72	$36.93	$32.65	$26.17	$27.40	$31.46	$32.48	$32.17	$36.37	$37.34	$37.86	$36.86	$37.32	$35.47	$34.04	32.50	31.60	$31.63
14. " " 2000 c.p. arc-light per night	.....	June 1, .70	.70	.70	70	70	June 1, 50	.50	July 1, 40	July 1, 35	35	35	35	35	35	35	35	35	Sept. 7, 35	Sept. 7, 35
15. " " " " " year	.....	255.50	255.50	255.50	255.50	255.50	182.50	182.50	$146.00	127.75	127.75	127.75	127.75	127.75	127.75	127.75	127.75	127.75	127.75	127.75
16. " " oil light per year	29.24	28.87	29.93	28.92	28.00	30.02	38.99	23.49	21.91	21.20	26.50	21.80	21.81	21.83	24.84	24.98	23.10	21.55	21.82	21.82
17. Rate per 1000 cubic feet for "gas supply"	$1.85	$1.85	$1.85	$1.85	May 1, $1.50	$1.50 1.00 .50	Nov. 1, $1.50	Jan. 1, $1.25	$1.25	$1.25	$1.25	$1.25	$1.25	$1.25	$1.25	$1.25	$1.25	$1.25	$1.25	$1.25
18. Amount expended for total lighting	$245,744.58	$243,529.49	$268,825.51	$279,964.48	$269,745.39	$272,898.24	$284,417.45	$315,360.67	$317,998.52	$296,838.82	$323,825.36	$347.952.06	$358,455.35	$362,984.89	$380,039.06	$400,652.33	$401,676.87	$399,550.19	$395,757.37	$395,924.20

TABLE IV.

CITIES OF EQUAL OR GREATER POPULATION THAN BALTIMORE.

GAS CHARGES.

	No. of Lights.	Consumption of Gas in Burner per Hour.	Annual Hours.	Per Year per Light. Basis of Charges.	Lamp lighting.	Maintenance.	Total Cost.	Relative Position as to Charges to City.	Rates to Private Consumers.	Relative Position as to Charges to Private Consumers.	Remarks.
	1	2	3	4	5	6	7	8	9	10	
		Cu. ft.									
Baltimore	6,232	3	3873	$10.13	$9.50	$12.00	$31.63	1.000	$1.25	1.000	All Welsbach in 1900.
New York	25,213	3 and 5	4000	18.99	.....	1.98	20.97	0.663	.65 and 1.10	.520 .880	0.65 competition prices.
Chicago	34,800	4	3800	20.00	....	1.98	21.98	0.695	1.00	.800	No Welsbach.
Philadelphia	19,742	5	4,235	part 20.20	.....	.....	20.20	0.640	1.00	.800	No Welsbach. Northern Liberties Gas Co.
Philadelphia	.....	.....	.....	part free	9.50	1.98	11.48	0.363	1.00	.800	No Welsbach. United Gas Improvement Co.
St. Louis	1,214	5	3287	37 00	.....	.....	37.00	1.170	1.00	.800	No Welsbach.
Boston	.....	5	.....	8.10	9.50	12.00	29.60	0.936	1.00	.800	No. lights not stated.

See text for further explanation.

TABLE V.

ELECTRIC LIGHT CHARGES.

	No. of Lights.	Candle Power.	Hours—Annual.	Per Light. Cost Per Night.	Per Light. Cost per Year.	Per Light. Kilowatt Hours.	Per Light. Cost per Killowatt Hour.	Relative Position as to Cost.	Remarks.
	1	2	3	4	5	6	7	8	
Baltimore, [streets.]	1391	2000	4000	$0.3500	$127 75	2000	$0.0639	1.000	All connections overhead.
Baltimore, [parks.]	.....	.....	.....	0.2053	75 00	2000	.0375	0.587	
New York	4392	1200	3890	0.4235	154 40	1362	.1132	1.770	Mainly underground.
Chicago	531	2000	3850	.2825	103 00	1925	.0535	0.837	Municipal plant—3,500 lights. Price taken is for overhead connections.
Philadelphia	7832	2000	4235	.3050	111 33	2118	.0565	0.884	Largely underground.
St. Louis	2610	2000	3908	.2052	74 95	1954	.0384	0.600	Partly overhead, partly underground.
Boston	.....	.....	.....	.3500	127 75	1966	.0650	1.017	Mainly under ground. $0.35 for present number lights.
Boston	2365	2000	3932	.3000	109 50	1966	.0557	0.871	$0.30 for 5000 lights or over.

See text for further explanation.

TABLE VI.

CITIES OF POPULATION LESS THAN BALTIMORE.

GAS CHARGES.

	No. of Lights.	Consumption of Gas in Burner Per Hour.	Hours Burn Annually.	PER LIGHT PER YEAR.				Relative Position as to Charge to City.	Rates to Private Persons.	Relative Position as to Charge to Private Consumers.	REMARKS.
				Basis of Charge.	Lamp Lighting.	Maintenance.	Total Cost.				
	1	2	3	4	5	6	7	8	9	10	
Baltimore	6232	3	3873	$10 13	$9 50	$12 00	$31 63	1.000	$1 25	1.000	
Cincinnati	3000	4	3820	11 46	9 50	1 98	22 94	.724	75	.650	
San Francisco	4498	5	3193	36 50	.....	.....	36 50	1.152	1 50	1.200	
Washington	6520	5	3760	20 00	.....	.....	20 00	.633	1 10	.880	Price to City, $1.00. In 1901 to be also $1.00 to private users.
St. Paul	2635	5	4000	23 00	.....	.....	23 00	.725	.....	.....	
Newark	2015	4	4000	19 00	.....	1 98	20 98	.664	1 10	.880	$1.00 if paid in 5 days.
Minneapolis	4724	4¼	2000	8 50	4 00		12 50	.395	1 30	1.040	$1.00 to City.
Milwaukee	2557	5	3815	20 00	.....	.....	20 00	.633	1 00	.800	$0.80 for heating.
Louisville	.....	5	4000	14 43	.....	.....	14 43	.455	1 30	1.040	Price fixed by City.
Indianapolis	185	.....	2000	17 00	.....	.....	17 00	.537	63	.540	See text.
New Orleans	.....	.....	.....	.....	.....	.....	.....	.....	1 00	.800	
Allegheny	31	5	4000	11 00	9 50	1 98	22 48	.710	1 75	1 400	
Jersey City	210	3	4000	30 00	.....	.....	30 00	.947	1 25	1.000	$0.55 to City.
New Haven	253	3	4000	30 00	.....	.....	30 00	.947	1 10	.880	
Omaha	909	3	4000	30 00	.....	.....	30 00	.947	1 25	1.000	$1.20 to City.
Paterson	429	5	4000	18 00	.....	1 98	19 98	.632	1 35	1.080	
Providence	785	5	4000	21 00	9 50	1 98	32 48	1.024	1.125	.900	
Richmond	146	3	4000	8 10	18 00		26 10	.825	1 10	.880	$1.05 to City.
Rochester	157	5	4000	29 20	.....	.....	29 20	.920	1 00	.800	See text.
Toledo	.....	.....	.....	.....	.....	.....	.....	0.000	1 25	1.000	
Worcester	402	3	4000	30 00	.....	.....	30 00	.947	95	.760	See text.
Cleveland	5218	4½	3760	13 54	9 50	1 98	25 02	.791	.....	.....	
									80	.640	Gross receipt tax 6½ per cent.

TABLE VII.

CITIES OF POPULATION LESS THAN BALTIMORE.

ELECTRIC LIGHT CHARGES.

	No. of Lights,	Candle Power.	Hours Burn Annually.	Per Light.				Relative Position as to Cost to City.	Remarks.
				Cost per Night.	Cost per Year.	Kilo Watt Hours.	Cost per Kilo-Watt Hour.		
	1	2	3	4	5	6	7	8	
Baltimore	1391	2000	4000	$ .3500	$127 75	2000	$ .0639	1.000	
Cleveland	890	2000	3760	0.2400	87 50	1880	0.0464	.726	
Detroit									Municipal Plant.
San Francisco	786	2000	3870	.4250	155 13	1935	.0801	1.254	
Washington	658	2000	3580	.1972	72 00	1790	.0402	.629	
St. Paul	395	2000	4000	.2630	96 00	2000	.0480	.753	
Pittsburg	2400	2000	4000	.2630	96 00	2000	.0480	.753	
Newark	1689	2000	4000	.2700	98 55	2000	.0493	.772	
Minneapolis	801	2000	3500	.2973	108 50	1750	.0620	.957	
Milwaukee	1412	2000	4000	.2520	92 00	2000	.0460	.721	
Louisville	1523	2000	4000	.2300	84 00	2000	.0420	.658	
Indianapolis	1158	2000	2000	.2328	85 00	1000	.0859	1.331	
New Orleans	1626	2000	3850	.3500	127 75	1925	.0663	1.038	
Albany	650	2000	4000	.3400	124 10	2000	.0621	.958	
Allegheny	1237	2000	3976	.2176	79 54	1988	.0400	.626	Figures deduced from 1899 Report. Municipal Plant.
Denver	950	2000	4000	.2740	100 00	2000	.0500	.783	2000 c. p. offered at $85.00 per year.
Jersey City	1326	2000	4000	.2712	99 00	2000	.0495	.775	
Los Angeles	823	2000	3870	.1643	60 00	2000	.0310	.485	
New Haven	491	1200	4000	.2500	91 25	1400	.0652	1.021	
Omaha	334	2000	4000	.3137	114 50	2000	.0573	.897	
Paterson	740	2000	4000	.2800	102 00	2000	.0510	.798	
Providence	1870	2000	4000	.3500	127 75	2000	.0639	1.000	Price to be 30 cents per night after June 15, 1900.
Richmond	543	1200	4000	.1600	58 40	1400	.0417	.652	
Rochester	2290	2000	4000	.2500	91 25	2000	.0456	.715	
Scranton	610	2000	4000	.2000	73 00	2000	.0365	.572	Considering municipal operation.
Syracuse	1200	2000	2000	.2500	91 25	1000	.0913	1.431	
Toledo	1100	2000	4000	.2273	83 00	2000	.0415	.650	
Worcester	647	2000	3650	.3200	116 80	1825	.0640	1.001	
Cincinnati	3300	2000	3820	0.2325	84 90	1910	.0445	.696	

40TH ANNUAL REPORT

—— OF THE ——

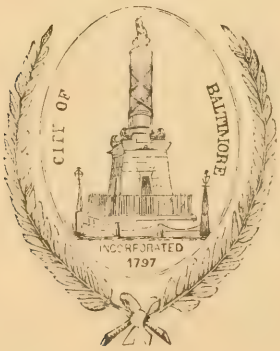
Public Park Commission

—— TO THE ——

Mayor and City Council of Baltimore,

—— FOR THE ——

Fiscal Year Ending December 31, 1899.



BALTIMORE:
WM. J. C. DULANY COMPANY, CITY PRINTERS.

1900

The Public Park Commission

— OF THE —

City of Baltimore, Md.

HON. THOMAS G. HAYES, *Mayor.*

CHAS. H. TORSCH, *President.*

JOHN N. STEELE,

ROBERT M. SPEDDEN,

HENRY V. CASEY,

WILLIAM GRIFFITH,

OSCAR E. ROSS.

Standing Committees.

Finance: - -	Commissioners	STEELE AND TORSCH.
Improvements:	"	SPEDDEN AND GRIFFITH.
Supplies: - -	"	CASEY AND ROSS.

Park Committees.

Druid Hill Park, - -	Commissioners	SPEDDEN AND STEELE.
Clifton Park, - - -	"	CASEY AND ROSS.
Patterson Park, - -	"	GRIFFITH AND CASEY.
Carroll Park, - - -	"	ROSS AND TORSCH.
Riverside and Federal Hill Parks	"	SPEDDEN AND GRIFFITH.
Collington and Johnson Parks,	"	CASEY AND GRIFFITH.

Officers of the Park Commission.

CHARLES G. LEONARD, Secretary-Treasurer.

CHARLES R. PARKHURST, Book-keeper.

General Superintendent.

FRANCIS H. WATERS.

Superintendents of Parks.

Wm. H. Cassell, - -	Druid Hill Park.
Noah F. Flitton, - -	Clifton Park.
Robert S. Corse, - -	Patterson Park.
Charles L. Seybold, -	Carroll Park.
J. Fred Wessler, - -	Riverside and Federal Hill Parks.
Harry S. Sinclair, -	Collington Park.
Frank McLain, - -	Johnston Park.
Frederick Ebert, - -	Mt. Royal Terraces and Bolton Park.

Report of the Public Park Commission.

BALTIMORE, December 31st, 1899

The Honorable the Mayor and City Council of Baltimore:

GENTLEMEN—In accordance with Section 5 of Ordinance No. 60, approved July 21st, 1860, the Board of Public Park Commissioners are required to furnish each year a full account of their operations. In connection with the reorganization of the Board and its departments, which was effected September 26th, 1899, the duty of preparing the Annual Report was assigned to the President. This report having been adopted by the Board, is herewith presented and, together with those of the General Superintendent and Treasurer which follow, will constitute the Fortieth Annual Report for the year ending December 31st, 1899.

The Board has endeavored to continue the careful management of the various parks by keeping them in thoroughly good condition, and rendering them at all times perfectly safe for the enjoyment of our citizens and their families. In addition to the maintenance of the parks and squares, extensive improvements have been undertaken at Druid Hill, Clifton, Carroll and Patterson Parks, which have all been completed to the extent which was originally contemplated for the current year.

The present Board entered upon its duties March 1st, 1898. During the year 1898 the Board was compelled to rigidly exclude nearly all permanent improvements in order to accommodate itself to the reduced revenue of that year, as the City Passenger Railway Company had advanced to the former Board in 1897 $15,000 of the park tax, which would otherwise have been paid in 1898, and been available for such purposes in that year. As a result of this action the expenditures were reduced in that year, so as to remain within the limits of the

reduced income. Consequent upon this strict retrenchment in 1898, we were confronted in the beginning of 1899 with the necessity of immediately carrying out certain very pressing work which should have been accomplished during the previous year. Besides, the citizens of Northeast and Southwest Baltimore had been promised that decisive steps would be taken in the advancement of Clifton Park and the new extension of Carroll Park.

A vigorous policy was therefore inaugurated so as to supply such permanent improvements to which the Board deemed the people were entitled. Among these may be mentioned the erection of a large modern stable, and construction of a new road, three-quarters of a mile, at Clifton Park from the mansion to Belair avenue; road work on Green Spring avenue and in Druid Hill Park; heavy sub-soiling, road-building and improvements upon the last extension to Carroll Park; the completion of the southern driveway at Patterson Park. In addition to these we acceded to the new demand of the public for music in the parks, and met the additional interest payment upon the loan of $70,000 for the purchase of Carroll Park extension, and the increased payment into the sinking fund.

In the latter part of the year 1898 the Board undertook to make the wages which were paid in the various parks more uniform. A great many men were paid $1.00 per day for the same work for which others received $10.00 per week. It was necessary either to reduce the wages of the latter or increase the former. After mature consideration we concluded that we would only be giving expression to the voice of the people by bringing the pay of the lower to the level of the higher, as well as enhancing the character of the service. As a result of this change there was an increase in the pay-rolls over the previous year to the extent of $1,500. The balance of the increase was occasioned by the larger force employed upon new operations.

By careful analysis of the Treasurer's Report it will be found that all these matters combined have required a larger expenditure than the year 1898. A portion of these park im-

provements might have been left unfinished until the next year, but it was our judgment that it would be the truest economy to complete the same during the active season, before the approach of the winter months, although it necessitated the members of the Board personally advancing to the Treasurer $6,500.

It is with deep regret that we record the death of our fellow-member and President, the late David L. Bartlett, which occurred May 11th, 1899. In common with many organizations of trade and commerce this Board sustained a loss which was felt by the entire community. Suitable resolutions were adopted, which are printed in this report. Subsequently His Honor Mayor William T. Malster appointed Dr. Oscar E. Ross to fill the vacancy, and on June 20th Charles H. Torsch was elected President.

The determination of the Board to limit the deer within an area of 15 acres in the "Wilderness," and to remove the unsightly fences from the southwest side of Druid Hill Park was the result of long and careful consideration. As this subject has been one upon which conflicting opinions existed among our citizens, it has been deemed proper to print herewith the special report prepared by Mr. John N. Steele, embodying the Board's attitude upon this vexed question.

Since the removal of the fence and the completion of the pavement west of Madison Avenue entrance, there has been universal gratification expressed at the more beautiful appearance of the park when approached from that side. A hedge will be planted in the spring which in time will render this one of the most attractive portions of the park.

The entire fence around Collington Park has been removed and the hedge, which replaced it, has caused this park to become the object of general admiration by all the residents of that section of the city. The removal of the fence on the south side of Patterson Park has likewise met with the approval of all, and since Riverside has been surrounded with residences it has been found necessary to remove the fence and let the people have the unrestricted enjoyment of this cosy little park. We have found, after the most careful inquiries,

that in no instance whatever have the keepers had any difficulty arising from stray animals or from drunken men. It is demonstrated beyond a shadow of doubt that women and children are as well protected now as they have ever been in all of these parks, and for obvious reasons, even more so than in the past.

The purchase of a strip of woodland, 2½ acres, at the northern boundary of Clifton Park was consumated this year, and nothing remains but the signing of the deed. This land lies on the south side of Erdman avenue, east of the Harford road, and with this acquisition the natural boundary of Clifton Park is completed at that point.

After thorough consideration it was unanimously decided to effect a sale of that portion of Clifton Park which lies south of the railroad track and west of Washington street, at the southern boundary of Clifton Park. This section is less than 5 acres, and by reason of its location it is utterly unsuitable for park purposes We call the attention of your Honorable Body that an ordinance providing for this sale has already been introduced, and we trust in due time will be passed by the Council and receive the sanction of His Honor the Mayor.

All other details in reference to the work done in the parks will be sufficiently explained in the General Superintendent's report.

With the view of definitely determining the responsibility of every officer and of obtaining the very best service, the Board in September decided upon a reorganization of all its departments. After a careful search of the records no rules could be found setting forth in detail the duties of the chief officers and superintendents of the Parks. For this reason a copy of the report of the Committee on Reorganization as adopted has been printed in this report.

By this reorganization the former office of General Superintendent and Engineer, with a salary of $3,000, was abolished, also those of Assistant Engineer and Rodman; the expense of an outside engineer's office and extra stenographer was also saved. Instead of these officials there was created the office of General Superintendent only, at a salary of $2,000. It was agreed that at any time the service of an engineer was

needed the Board would employ one for the necessary time required, and any assistance needed by him should be furnished by the regular employees at whatever park he was engaged. This change reduced a total annual expense of $5,800 to $2,000.

It was deemed advisable at the same time that there should be an officer of the Board, who had special qualifications, to supervise the landscape gardening, to design with true artistic taste the course of new roads, and take charge of the entire Horticultural Department.

We desire to express our firm conviction that in the development and adornment of our parks, the feature of civil engineering should be distinctly subordinated to the retention of the natural beauties of the landscape. This could not be better recognized than by an appointment which would place this responsibility where it could be most effectively exerted.

The time has arrived also when the propagating houses in Druid Hill, Patterson, Clifton and Carroll Parks should be embraced under the care of a single responsible head. The plans for the future include the supply of all the various squares in the city with flowers from the park nurseries, thus saving an annual expenditure of about $10,000, which the square commissioners heretofore expended for the purpose from the general park funds. At the same time, the Board could not avoid anticipating the change of the year 1900, whereby all the squares would come under the direct control of the Park Board. The management of these squares and their floral embellishment would necessarily require an experienced head, and the Board determined to embrace this entire field of operation, both for the parks and the squares, under one control. When it is remembered that all supplies of fertilizers, etc., can be provided in one purchase, and the entire management conducted in accordance with one comprehensive plan, it can readily be seen that a very great saving can be effected by a specially qualified and competent official. The office of landscape architect was therefore created at a salary of $1,800. Mr. Chas. L. Seybold, Superintendent of Carroll Park for the past eight years, was elected to fill this position from January 15th, 1900. A portion of this

salary should be regarded as an additional expense incurred by the alteration in the general management, thereby reducing the net amount saved to about $3,000, after making the entire change.

It has always been a source of difficulty that the general office rooms of the Board were not combined. The General Superintendent and Engineer's office was in the Merchants' Bank Building, and the office of the Treasurer and his assistant in the City Hall. The Board meetings being held in a small room, very limited accommodations were afforded to the public when they desired to present their requests to the Board. It was impossible to obtain the necessary suite of rooms in the City Hall, and as the Casino in Patterson Park was unoccupied, this afforded an opportunity to combine all the departments in one building, avoiding a duplication of clerical help entailed by separate offices, and permitting us at our future meetings to come into immediate contact with the routine work of each of the departments. Four distinct offices, occupied by the General Superintendent, Landscape Architect, Treasurer and Book-keeper, are here grouped together, surrounding a liberal-sized Board room, and provided with all modern conveniences. Visitors to our city can be taken to these headquarters, and thus meet the official representatives in a handsome building, fully commensurate with the dignity and importance of the Department of Public Parks. This building was erected many years ago at a cost of $30,000, but during recent years it has been found impossible to rent it at any price, owing to the attractions now offered at the many suburban terminals of railway lines. Similar accommodations for this department elsewhere would cost a rental of probably $1,500.

We would call special attention to one feature in our reorganization which we trust will commend itself to your Honorable Body. It is desirable that the park system should be maintained upon a plane of as good business management as obtains in our largest manufactories. The employees of the various departments are paid good wages, and for this reason we should have competent gardeners, painters, patrol-

men, hostlers, keepers and laborers. Hereafter, all parties who desire employment in any of these capacities must apply at the general office and have their names registered, and the General Superintendent will examine into their qualifications and their references. The name of each, together with the report of the Superintendent, will be kept in a book of record. Whenever help is needed for any parks, the local superintendents can make their selection from this book, and thereby be able to obtain the most efficient service. Heretofore the members of the City Council have been compelled to urge appointments for their constituents, without being able to take the necessary time to ascertain their fitness. The adoption of this rule should result in a welcomed relief by all who are subjected to such importunity.

There has been for some time an earnest desire expressed by many of our citizens that the Board should give a decided encouragement to the welfare of young people by providing athletic fields in some of the parks. Other cities have recognized this want, and also that kindred one of providing public play-grounds for children; these two subjects have been generally discussed as the same problem. As our cities grow, the vacant lots where children formerly had opportunities for out-door exercise and play become more scarce. This loss is necessarily felt more acutely in the oldest and most thickly settled portions of our city, and young people are deprived of their natural birth-right, the healthy sport of childhood. Steps have been taken by other cities in the allotment of certain open spaces, which have been set apart in different sections for play-grounds and athletic sports. Since this action was taken it is conceded that the arrests of boys for minor violations of law have been reduced three-fourths, and both the moral and physical improvement of youth have been thereby enhanced.

During the past year a satisfactory baseball field has been provided at Carroll Park, which has been a source of great enjoyment to that section of the city. We have contemplated devoting about one-half of the new extension of this

park for an athletic field, looking to the development of an out-door gymnasium in the future. Similar provision can be made at Clifton Park, and so far as the authority of the Board would permit, it has been our desire to encourage all such efforts.

As for the larger question to which the study of this problem has directed our attention, of providing, wherever possible in our thickly inhabited localities small playgrounds, we can only urge upon your Honorable Body the appointment of a special committee to investigate thoroughly the whole subject and ascertain the result of this experiment in other cities. If such municipal action should receive the fullest endorsement by reason of this investigation, we are confident that there are many of our public-spirited citizens of ample means, who would gladly provide such playgrounds by special gift. The many private gifts to our parks in past years would presage a most hearty response to such a publicly recognized want. To supply a lot is the main requirement, and after its dedication for this purpose to the city, no other expense would be entailed but a simple enclosure, and the park funds could properly be employed to keep it in order at a very trifling cost.

The public demand is universal that music should be furnished in the parks during the Summer. The appropriation was made this year in compliance with the request of the Mayor and City Council. Whilst this action may have been commendable, yet there remains the actual language in the old charter, which is reiterated in the new, that the park tax should only be used for the maintenance and improvement of the parks. The Board was placed in the equivocal position of either thwarting the wishes of the people or else doing violence to the strict interpretation of the law. The situation was finally relieved by the opinion of the city law officers that the request of the Mayor and City Council was sufficient justification to appropriate the money.

The park tax is not the least important subject to which we invite your attention. After an investigation by the Pres-

ident of the method pursued by the United Railway Company in computing the amount of this tax, plans were outlined for a system of checking, and an examination of the books on these lines was made by the Treasurer, Mr. Charles G. Leonard. His final report indicated that the computation of the tax was entirely correct and in accord with the method which was directed by the Court of Appeals. The total receipts of car fares are divided between the city proper and the annex, in the same proportion as the total mileage of tracks covered is to that portion of the mileage either in the city or the annex.

Every facility was afforded to Mr. Leonard, and he was courteously permitted to make his examination as thorough and exhaustive as we desired. It is our opinion that the city receives from the United Railway Company the full amount to which it is entitled under the decision of the Court of Appeals. Since that decision in 1887, there has been a large increase in the trackage of the roads into the suburbs. Everyone recognizes the fact that the necessities of business in a growing commercial city, and the intermingling of this large population create an amount of constant travel within the city limits which is largely in excess of the restricted travel within the rural district. These two circumstances make it apparent to some of us that this old method of ascertaining the city's basis for the 9 per cent. park tax is no longer adequate to present conditions.

Whatever may be our individual opinions upon this subject, or the suggestions of any to remedy this inequality, we do not as a Board deem it proper to agitate the question.

Mr. Francis H. Waters was elected General Superintendent in September, and entered upon his duties October 1st. He has applied himself earnestly in pursuance of the line of operations directed by the Board. The experience of our first year in the management of the parks suggested that it might be possible to reduce the number of care-takers and expend the amount thereby saved upon permanent improvements. This could be accomplished more readily in the winter months.

Mr. Waters has addressed himself to this task, and at the close of the active operations in November has so arranged the employees that over 25 per cent. less force will have charge of the parks from December, 1899, to May, 1900, thus reducing the pay rolls $75.00 per day less than the previous year during these months. Including the abolishment of the Engineer's Department, this will effect a reduction in the current expenses of about $13,000. The city squares have hitherto required the annual appropriation of nearly $28,000. Under the direct control of the Board, to which reference has already been made, this expenditure can be reduced in future about $10,000. These two changes should place at the disposal of the Board for the coming year possibly $20,000 more than was available this year for permanent improvements.

The great interest which all classes of our citizens manifest in our public parks, has been prolific of many excellent suggestions from them as to improvements. It has been a source of regret that we have always had to meet such requests with the reply that want of funds forbade any action upon them. With a wise expenditure of this amount thus saved during the coming year some of these wishes may be gratified, notably the removal of the stable and sheds from the Fulton Avenue entrance to Druid Hill Park.

Whilst it is admitted by visitors, both from our own country and abroad, that Baltimore possesses one of the most beautiful natural parks in the world, yet we have felt that officially this has heretofore not been justly recognized. For this reason we have ventured to accompany this report with a few suggestive photo-engravings. With much pride and pleasure we would remind our citizens that one of the most interesting chapters in the history of our parks in the past thirty-nine years recounts the beautiful gifts of fountains and statues by noble-hearted citizens. It is with confident assurance that this chapter has not been closed, that we allude to this feature of park improvement. No greater reward awaits the donor than the knowledge that he may mould future generations with uplifting ideals of beauty and character in the midst of nature's

lovely surroundings. Permit us to mention our two new parks, Clifton and Carroll, as especially deserving of such thought and interest.

Trusting that our management will merit your approval, this report is

Respectfully submitted,

CHAS. H. TORSCH,
JOHN N. STEELE,
ROBERT M. SPEDDEN,
HENRY V. CASEY,
WM. GRIFFITH,
OSCAR E. ROSS.

[Since this report was written, an illustrated article upon out-door recreation, touching on the connection of the Park Board of New York with public playgrounds, has appeared in the issue of "The Outlook" of January 6th, which is highly interesting and suggestive, and well worthy of perusal by all who are disposed to give consideration to such municipal problems. C. H. T.]

Memorial.

BALTIMORE, May 15, 1899.

The following resolutions upon the death of Mr. DAVID L. BARTLETT were reported and adopted:

Resolved, That it is with the deepest regret this Board enters upon its records that our fellow-member and chairman, Mr. David L. Bartlett, has passed away from earthly life.

From the beginning of our intercourse with him in the performance of official duties, we unconsciously yielded to him the tribute of our constant and warmest respect. Every suggestion from his hearty interestedness and every opinion matured by his wise judgment, only revealed to us more clearly, from time to time, that sterling integrity of character which won our admiration and esteem. Each question before us always received his calm consideration, and as he gave expression to his views we instinctively felt the presence of a superb dignity, which was ennobling in its very simplicity. That ingenuous courtesy which characterized every action, those kindly amenities which sprung from his singleness of heart only evinced to us, as words cannot adequately express, the true gentleman of the old school.

Rarely, indeed, can it be said that the people of Baltimore have had mingling in their daily walks so worthy an example of all those distinctive qualities which manifest the honorable merchant, the upright citizen, the conscientious official, the faithful steward, the devoted friend. In the midst of all his public usefulness, so well supplemented by his long and valued experience, we suddenly realize that he has

"Fallen—as sets the sun at eve,
To rise in splendor where
His kindred luminaries shine."

May his memory be ever entwined with the history of the City of Baltimore, and may his name be cherished among those who have made the world better for having lived in it.

Resolved, That this memorial be published in the daily press and a copy be sent to the family of the deceased.

Report of the General Superintendent

For the Year Ending December 31, 1899.

President Charles H. Torsch and Members of the Public Park Commission.

GENTLEMEN—I have the honor to submit a report of matters coming under my supervision and observation for the period dating from my appointment as General Superintendent, on October 2, 1899.

DRUID HILL PARK.

(671.21 Acres.)

ENTRANCES.

No new entrances at this park have been ordered by your Commission during the year. On October 2nd I was authorized to make extensive improvements from the Madison Avenue entrance along Park Terrace to Druid Hill avenue; thence along Druid Hill avenue to the Druid Hill Avenue entrance. This improvement consists mainly in the construction of a brick pavement 13 feet 2½ inches wide from the Madison avenue portico along Park Terrace to Druid Hill avenue, and the widening of the east pavement of Druid Hill avenue from 8 feet to 12 feet from Park Terrace to the Druid Hill Avenue entrance. This work was done in a substantial manner. The old wood fence was removed along the confines of the park for the distance described, and the slopes were regraded and sodded, and all the details of the projected improvements were carried out in accordance with the plans submitted to you. There can be no question that the park has been greatly enhanced in appearance and utility by this wise treatment, and the public generally have commented most favorably upon the advantages gained by the redemption of this portion of Druid Hill Park.

The pavement on Park Terrace enters the west arch of the portico, very much to the advantage of foot passengers in

gaining entrance to Swann avenue, and the treatment of the problem at this point has the effect of throwing the portico in projection, thereby emphasizing its architectural meaning. No loss of deer can be charged to the removal of this old fence, as was feared would be the case prior to its removal.

During the present year large iron gates at the inner Mount Royal entrance, at the head of Latrobe avenue, were removed and disposed of to an out-of-town buyer. Since the removal of these gates I have presented for your consideration the advisability of the removal of masonry pedestals and centre piece, as they constitute an obstruction and are of no further utility. These gates were not set square to Latrobe avenue nor to the extension of Park avenue, but were on a skew to each of these avenues, a rather inharmonious treatment of the matter.

DRIVEWAYS.

I would respectfully call the attention of the Commission to the fact that the driveways of Druid Hill Park are in every case too flat, and in any projected improvements the crowning of roadbeds should be considered a *sine qua non*. The crown in all cases should be at least 12 inches in a roadbed of 60 feet, and for less width the crown should be proportioned in the same ratio to the width. This will insure proper draining of drives and will secure the very best results. In the building of new roadways the preliminary work of subgrading of roads should be projected on the following basis: Roadbed should slope from the centre to gutters with a sufficient wash to carry off the water. Broken stone of large size should be laid for the first course, on top of which should be a layer of small stone with a top dressing of fine crushed bluestone or rotten rock. In no case should I deem it wise to use the heavy steam traction roller on these driveways, as it defeats the very object it desired to attain, viz., a proper crowning of the cross section.

The present condition of driveways throughout this park is not such as would commend itself to experts. There are many holes and defective places, and this will continue to be

the case, unless the provisions of the foregoing recommendations are carried out in all future work. I am of the opinion that a bluestone top-dressing should be used in the future in preference to rotton rock, as it gives a more compact surface, and will prove more durable, and is of a much more attractive color.

The method prevailing heretofore in the working of quarry at Druid Hill Park has not met with my approval. I would present for the consideration of the Commission the advisability of getting this material out by contract, and I am safe in saying that a considerable sum of money will be saved by the adoption of this method in the future. The Pimlico drive should be resurfaced as well as the Lake drive; this work is greatly needed, and, indeed, indispensable to proper maintenance. No new driveways have been constructed during the past year. The drive from Druid Hill Avenue entrance to Swann avenue should be rebuilt and made to conform to the actual topography. This would eradicate the present heavy fill, which, in my judgment serves only as an obstruction to certain well-defined natural beauties of this portion of the park. I cannot speak of this drive in any other terms than as being an inexcusable artificiality.

FOOTWAYS.

No new footways have been constructed during the past year. I would respectfully call attention to the importance of constructing all future footways of rotten rock, such as we obtain from our quarry at Druid Hill Park. I fail to find a material that is more exactly suited to the construction of paths and walks than this rotten rock. It gives the very best results that it is possible to obtain. I have no suggestions to make as to new driveways or footways, as it is apparent that no extensions are necessary.

One of the most beautiful features of Druid Hill Park lies in the fact that the proportion of drives and paths to the lawn and woodland area is precisely as it should be. Any further extension of paths and footways or drives would only serve to mar the effect, and as at present laid out, every point of inter-

est in the park can be reached to the greatest advantage, both to pedestrians and drivers.

CYCLE TRACKS.

The cycle path has been resurfaced for a greater portion of its length with rotten rock in place of bluestone, very much to the advantage of cyclers. The surface is now perfectly smooth and permanent in nature. Rotten rock is indispensable to this character of work. I would recommend no further extensions in the way of cycle paths—the number of riders in the past year having fallen off so appreciably.

DRAINAGE.

No new drainage has been deemed advisable during the present year, except a single drain-well with connection to sewer located at the corner of Park Terrace and Druid Hill avenue—a necessary outcome of improvements at this point.

BUILDINGS.

No new buildings have been constructed during the present year, nor have there been any alteration, except of a minor nature, at the monkey house for the better accommodation of the puma, and a relocation of the watchman's box at Druid Hill Avenue entrance on the projected south building line of Druid Hill avenue.

There is urgent need for the removal of present stable, sheds and other outhouses from their present location. I would advise that your Commission consider at the earliest possible moment the necessity of grouping all the buildings at the present sheep-fold enclosure. A quadrangle formed by the erection of a new stable, wagon-shed, sheep-fold and all necessary outbuildings of a reasonably artistic design should be located at this point very greatly to the advantage of the proper maintenance of stock and a great quantity of material on hand, in the way of wagons, carts, mowers and like paraphernalia used in connection with the department. Plans should be prepared covering all the contingencies involved, and there can be no reason advanced why this group of buildings could not be made to conform to the best method

of construction and of artistic merit for the sum of approximately $15,000. This amount of money can be readily saved by intelligent management in the reduction of force to a normal capacity.

I would respectfully urge upon your Commission the installation of suitable sanitary toilets for men and women at the Mansion House. The present system is a disgrace, and constitutes a menace to health and morals. There can be no question that this is one of the most urgent needs that suggests itself to any one who is familiar with the conditions prevailing.

MASONRY.

It has not been found necessary to erect any masonry of any character whatever during the present year.

FENCES.

About 2,500 feet of wood fence was removed along Park Terrace, Druid Hill avenue and Evergreen Terrace up to the Orem property, in accordance with the provisions of a special act of your Commission. All other fences are in a fairly good condition, repairs having been made from time to time when necessary, all of small importance and of no extensive character. The wire enclosure around shrubbery and small trees throughout the park were removed, subsequent to the restrictions of deer within their present confines.

PAINTING.

The Maryland Building, and a portion of the Mansion and watchman's box at Druid Hill Avenue entrance were painted, as well as a number of benches, and general repair work.

THE ZOO.

The necessity of an extension of this interesting feature of the park is apparent to everyone. There can be no question that we have the most desirable location for future extensions, and I would respectfully suggest that plans be prepared for a central or administration building to cover the needs of a number of the best examples of the different species of wild

animals. From this administration building as a centre, future extensions could be made from time to time, as funds are available for that purpose. The present system of housing the animals is exceedingly crude, and should not be permitted to exist any longer than practicable. The Commission would be rewarded by the effect of the expenditure if ten or twelve thousand dollars was set aside from the appropriations of the coming year for the specific purpose of establishing a nucleus as suggested for a more extensive zoological garden, and one constructed in accordance with the best methods, and of the most approved design.

CONSERVATORY.

The Conservatory at Druid Hill Park should be extended, and at the same time certain changes should be made in the design of the structure which would secure greater architectural merit.

There is an important matter that should be taken into consideration at the earliest possible moment. The Druid Hill Avenue loop of the United Railway Company on Fulton avenue and opposite Druid Hill avenue entrance to the park should be removed, as it constitutes a menace to the proper security of vehicles, as well as of foot passengers.

In this connection when sheds and other outbuildings are removed from this locality improvements should be made at this point, and should be extended as far as the Orem property. This improvement should consist in parking all that area now occupied by these buildings, and the laying of necessary pavements and setting of kerb, so as to give a finish to that margin of the park. The Chinese pavilion could be diminished in size with considerable advantage to the general effect.

The mansion at this park is capable of classic treatment in its surrounding porches, which would add very materially to its beauty. The old building is of a colonial design and the porches should be made to conform to this treatment; the use of the Ionic order being preferable to all other forms. The present porches are a great disfigurement to the structure.

The question of whether automobiles should be allowed within the confines of the parks has been laid before the Commission. It would seem that this privilege should be granted, but only after permits for this method of driving shall have been obtained from the General Superintendent, and applicants shall have given good evidence that they are expert in the handling of their machines, and, indeed, it would seem that certificates of ability to engineer automobiles should be deposited with the General Superintendent before individuals are allowed to enter the parks. This provision is in force in New York City at the present time.

Patterson Park.

(106 Acres.)

No new work of any special importance has been constructed during the present year. There has been an extension of the drive on the Eastern Avenue boundary of the park; this work was of limited extent. A path has been constructed some 800 feet long in conjunction with driveway and an entrance secured some 300 feet west of the southeast corner of the park.

I would advise that no permanent entrance be considered in the way of masonry pedestals, but that the method of indicating entrances should rather be by means of handsome bronze lamps at each side of the drive. The fact that all of the fence surrounding this park will be removed in a reasonably short time, would preclude the necessity for massive masonry entrances. The artistic appearance of the park would be best conserved by a different treatment altogether from the one which has prevailed heretofore of having an enclosure around the confines of the reserve along with gates at the entrance points.

DRIVEWAYS AND FOOTWAYS.

I would particularly call attention to the fact that the laying out of Patterson Park is exceptionally bad. In the west section the walks are so enterlaced and extensive as to greatly mar the effect; one-half of these paths could be dispensed with, without in any way defeating the best means of access

from one point to another. Innumerable drain wells are located in close proxmity one to another without rhyme or reason. One-half the present number would do the work.

The driveways throughout the old park are in a very bad condition; this condition is largely due to the method of construction and the lack of intelligent grading. The water is thrown to the sides of the drives instead of in the gutters, and washouts necessarily follow. In the eastern extension the driveways are in much better condition than in the old park, and it may be said that they are reasonably well located. The whole question of drives and walks throughout Patterson Park should be carefully studied with a view to remodelling, and no good results could be obtained unless in making the needed improvement, the old system was absolutely disregarded. I would urgently advise your Commission to give this matter your serious thought and early attention. This park is in a run-down condition and extensive manuring of sod is imperative.

BUILDINGS.

The Conservatory at this park is in very great need of redemption, and it has been necessary to exclude the public owing to the fact that the timbers have rotted to such an extent as will require the rebuilding of present structure or the erection of another and more commodious one and of better design. A great deal of interest is taken in this feature of the park, and I would consequently recommend that a larger building be erected of an approved design, and that steel framing be used in place of wood.

The necessity for toilet rooms of a sanitary nature is very apparent. I would therefore recommend that a new system be placed in the park, and that a suitable building be erected for the accommodation of both men and women.

The Casino has been fitted up for the use of your Commission and its general officers. The arrangement of offices is excellent and the rehabilitation is artistic and meritorious from every standpoint, with the one exception that in place of the present heating apparatus a hot-water system should be put in for the better heating of the building.

FENCES.

The iron fence on Eastern avenue has been removed, very much to the advantage of that portion of the park. Within the coming year I would advise that all other fences be removed except that portion adjacent to the eastern boundary.

TREES.

In the western end of the park there are a great many useless trees. They are in such close quarters that in many cases one is stunted by another. I would advise that in all cases of this nature the thining out process be adopted promptly.

Federal Hill Park.

(8.25 Acres.)

This property has been kept in good condition for the past year and no improvements have been made that are worthy of special mention.

Riverside Park.

(7.28 Acres.)

The iron fence on the north and east boundaries of this park has been removed, a length of 1,400 feet. This fencing was very poor and constituted an eye-sore. Driveways are in fairly good condition, as well as walks, and all buildings have been kept in good repair. Some slight changes were made to the Superintendent's house in the way of improvements; they were, however, of a minor nature. There is urgent need for a new pavement on the east and west boundaries of the park, for the resetting of kerb on the north boundary, and some patching of the pavement. Adjacent property facing on this park has been improved to such an extent that these new pavements and the repairs to the old ones would seem to be imperative.

Mt. Royal Terraces.

(2 Acres.)

This bit of green is always interesting. Its normal conditions may be said to be very near the point of perfection, and too much cannot be said in praise of the intelligent local management that secures so desirable a result.

Bolton Park.

(3.34 Acres.)

The only recommendation that I have to make with regard to this park is that flower-beds are essential to give it the proper character and effectiveness; this will doubtless be done when your head gardener shall have been placed in charge of his particular department.

Johnston Park.

(2.58 Acres.)

The driveways, sidewalks, buildings, sod and foliage at this park are all in first-class condition. I would call the attention of the Commission to the fact that a suitable enclosure for farming implements should be erected, as there is no means of storing such material.

Collington Park.

(5.14 Acres.)

This park has been intelligently managed, and has been converted from a crude condition into one of a most presentable character. The sod is excellent, and the foliage is responding remarkably well to careful treatment. A considerable amount of tree planting on adjacent pavements has been completed, and tree boxes have been erected for proper protection of these young trees. A large quantity of manure for top-dressing has been put out in the past year, and the sod compares favorably with the best to be found in Druid Hill Park.

Carroll Park.

(64.31 Acres.)

A considerable amount of work has been done during the past year in the redemption of the extension to this preserve. Top-soil has been put on in great quantities, and tree planting, where possible, has been extensive. The driveways in the old park are in fairly good condition, as well as the footways. A large amount of material has been spread on dumps in the extension, and every effort has been used toward bringing this new portion of the park up to a point where it will be ready for top-soiling and planting.

The only suggestions I have to make with regard to the future of Carroll Park are in connection with a system of drives and walks throughout the new-purchased area. I would respectfully suggest that plans be prepared for the finished work at as early a date as may be possible.

I would respectfully call attention to the fact that the 30-inch park sewer should be pushed to completion at as early a date as possible, and I would recommend that the Eagle and Calhoun Street sewers be completed within a very short time, as they constitute under present conditions a menace to health. The City Commissioner's Department should do this work promptly. We have had repeated notifications from the Health Department with regard to stagnant ponds created by these sewers, and there is no possibility of the abating of this nuisance until the sewers shall have been extended beyond the confines of our property.

BUILDINGS.

The Superintendent's house is one of the best examples of colonial architecture in the city, the north portico being an exquisite bit of art. I would recommend that the west wing be removed, as it has nothing in common with the original building and mars the effect of the whole. Any extension that might be made to this building should be made in strict harmony with the original design.

A new propagating house has been erected with hot water heating plant; the improvement was much needed. The old propagating house should be removed.

I would recommend that a new brick or stone stable be erected for the proper housing of stock at Carroll Park. Room should be had for the storing of farming utensils likewise.

This park has been intelligently managed for the past year and if the same earnest attention is paid to its needs in the future it will not be long before its whole area is reclaimed.

Clifton Park.

252.9 Acres.)

Subsequent to my appointment on October 2d I was called upon to take in hand the completion of construction of a new

roadway at Clifton Park, from the Belair entrance to stone culvert. With the approval of your Commission I made slight changes in the alignment and radical changes in the gradients of this roadway. It was also deemed wise to make extensive alterations to the culverts, and in the place of the terra cotta pipe that I found I built two culverts, one in the valley and one at the Belair entrance, 2 feet in diameter, brick arches with head walls of brick, and coping of 6-inch Baltimore County gneiss.

The heavy cuts along this line of roadway were filled up, very much to the advantage of its appearance. This drive has been completed with the exception of a top dressing, which I would advise be delayed until the early summer.

There is a great opportunity at Clifton for beautiful effects in landscape work, and a system of drives and walks should be extended as soon as available funds may be set aside for that purpose. The natural beauties of the landscape present many possibilities, but in order that the subject may be studied comprehensively and intelligently, it would seem to be imperative that suitable maps be prepared, and the whole area be considered in the way of all future improvements before any single improvement is entered into. It is a very easy matter to spoil the whole effect of future work by going into the projection of roadways or walks blindly before the parking of the whole acreage is carefully studied.

Greatly needed improvements were made to the Mansion House during the year, and they consist principally in fitting up a suitable waiting-room for ladies, and reception-room, golfroom and office. The Mansion under the present arrangement will meet the needs of the public for some time to come.

BUILDINGS.

A stable and wagon shed were erected during the past year and a drinking fountain for horses. There are certain sections of land on the southeast boundary of Clifton Park, near the Belair road, which, if purchased, would greatly add to the beauty of the park, when taken in connection with certain improvements that will inevitably be made in the future. I

would recommend to your Commission to give this matter your careful consideration. The sale of that portion of the park south of Belt Line tracks and west of the Washington road would partly offset the purchase of the area that I have in mind. The buildings throughout the park have been kept in good condition and repair, as well as drives and walks, and the management of the park has been intelligent.

General Remarks.

Since my appointment as General Superintendent of Parks it has been apparent to me that a large amount of money could be saved by the proper disciplining of the force employed by your Commission, and by its reduction to the point of actual need only. With this end in view I have caused the number of men employed to be reduced to 125; this covers all the employees connected with all the parks under your administration, and is ample to maintain the system at the highest point of efficiency, provided every man does his duty and fulfills the condition of his employment. I have impressed upon the superintendents of the parks the idea that they are personally responsible for any inefficiency on the part of any of the employees connected with their respective parks, with the results of securing very much better methods in the administration of affairs of this department. The saving to your Commission by intelligent administration along these lines will be some $20,000 per annum.

In the purchase of supplies it has been my constant aim to get the best material at the lowest cost. A great saving can be effected by intelligent and earnest effort in this important matter.

When your Commission shall have centralized the gardening departments of the four parks where we now have propagating houses and nurseries, and put this work under one head, a considerable saving will be effected. Clifton Park would seem to be the best location for this plant, as there is ample room for extensions.

I would call the attention of your Commission to the fact

that the architectural merit of entrances and buildings throughout the various parks is very questionable. In any future improvements of this nature all plans for the projected improvements should be submitted to the Art Commission before work is commenced, or before the funds are authorized for construction. Had this been the custom in the past, many indescribably crude and ungainly structures would have been impossible. Too much stress cannot be laid upon this all important feature of the parks.

The color scheme for the various buildings throughout the parks should be carefully studied, with a view to harmonizing the buildings with the landscape; this idea does not seem to have obtained heretofore.

In the construction of roadways there can be no reason presented of a convincing nature that heavy cuts or fills are essential. These embankments mar the landscape and defeat all known principles of art. It would therefore seem best that the topography which nature has provided should be followed in all future cases in the projection of new roads and new walks.

The need for a suitable conveyance for out-of-town visitors on official errands is very pronounced. I would respectfully urge that we consider the advisability of the purchase of a four-seated conveyance, to be located at Druid Hill Park, for the use of your Commission and general officers, when distinguished visitors from abroad visit our city with a view to inspecting our parks.

Respectfully submitted,

FRANCIS H. WATERS,

General Superintendent.

Report of the Treasurer.

BALTIMORE, December 31, 1899

CHAS. H. TORSCH, ESQ., President,

The Board of Public Park Commissioners,

Baltimore, Md.

SIR: I have the honor to submit herewith my report as Treasurer of the Board of Public Park Commissioners for the year ended December 31, 1899.

Very respectfully,

CHAS G. LEONARD,

Secretary-Treasurer.

Statement of Receipts and Expenditures

Receipts.

Balance from 1898	$6,465 06
Baltimore City Passenger Railway Co	48,760 06
Baltimore Consolidated Railway Co	68,917 13
Central Railway	8,613 20
Baltimore and Northern Railway	1,036 38
The United Railways	141,300 89
Fines from various squares	15 00
Rentals—Druid Hill Park	1,335 00
Rentals—Clifton Park	250 00
Rentals—Carroll Park	40 00
Sales—Druid Hill Park	1,934 56
Sales—Clifton Park	225 20
Sales—Riverside Park	5 85
Fines—Druid Hill Park	177 50
Fines—Patterson Park	10 00
Fines—Clifton Park	37 00
Fines—Carroll Park	13 30
Fines—Riverside Park	21 00
Amount advanced to Treasurer by the Board	6,500 00
Unexpended balance from various squares	1,218 04
	$286,875 17

For the Year Ending December 31, 1899.

EXPENDITURES.

Interest on Patterson Park Extension, Carroll Park Extension and Clifton Park loans	$35,737 50
Sinking funds	13,407 80
Druid Hill Park	86,656 11
Patterson Park	28,435 86
Clifton Park	30,629 72
Carroll Park	26,192 33
Riverside Park	7,393 45
Federal Hill Park	3,361 46
Collington Park	7,133 78
Johnston Park	3,196 98
Mt. Royal Terraces	2,012 46
Bolton Park	1,415 15
Ashland Square	165 00
Bo-Lin Square	125 00
Broadway Squares—first division	1,800 00
Broadway Squares—second division	1,750 00
Broadway Squares—third division	1,750 00
Eutaw Squares—first division	1,750 00
Eutaw Squares—second division	1,800 00
Eastern Fountain	1,050 00
Franklin Square	1,250 00
Fulton Avenue Squares	2,090 00
Harlem Park	2,500 00
Jackson Square	1,000 00
Lafayette Square	1,600 00
Madison Square	1,635 00
Mt. Royal Squares	1,065 00
Mt. Vernon Place Squares	1,600 00
Park Place Squares	750 00
Park Place Squares, (new) Ordinance, 1899	76 20
Perkins Spring Square	1,450 00
Taney Place Squares	575 00
Union Square	1,500 00
Wilkens Avenue Squares	2,100 00
Music in parks	1,810 82
Office expenses, City Hall	4,107 76
Office expenses, General Superintendent	4,661 33
Balance cash on hand	1,341 46
	$286,875 17

Druid Hill Park.

Disbursements for the Year Ended December 31, 1899.

Pay-rolls	$62,466 94
Electric lighting	7,659 22
Supplies, general	4,329 32
Food, work animals	2,101 80
Building repairs	1,895 86
Food, show animals	1,216 46
General repairs	1,124 20
Supplies, gardening department	1,094 26
Water supply	747 28
Office expenses	576 56
Uniforms	556 22
Fuel, gardening department	507 40
Lawn and agricultural machinery	392 55
Fuel, keeper's boxes, Superintendent, etc	361 31
Horseshoeing	348 00
Painters' supplies	278 27
Gas and oil lighting	262 03
Hardware	225 88
Tools and implements	184 10
Rolling stock	164 90
Horse furniture and stable supplies	163 55
	$86,656 11

Clifton Park.

Disbursements for the Year Ended December 31, 1899.

Pay rolls	$16,643 35
Buildings, new	5,092 36
Gas and oil lighting	2,872 91
Supplies, gardening department	1,422 35
Supplies, general	1,329 58
Building repairs	993 36
Lawn and agricultural machinery	439 51
Water supply	412 25
Food, work animals	394 85
General repairs	202 79
Fuel, gardening department	185 01
Painters' supplies	137 16
Rolling stock	112 40
Uniforms	88 75
Horse furniture and stable supplies	86 02
Office expenses	63 76
Fuel, keepers' boxes, Superintendent, etc	44 20
Tools and implements	44 17
Hardware	36 54
Horseshoeing	28 40
	$30,629 72

PATTERSON PARK.

Disbursements for the Year Ended December 31, 1899.

Pay-rolls	$21,087 59
Supplies, general	1,691 55
Electric lighting	1,534 80
Supplies, gardening department	1,136 36
Uniforms	420 90
Fuel, gardening department	385 29
Water supply	366 26
Building repairs	295 48
Gas and oil lighting	249 82
Rolling stock	225 70
Food, work animals	218 85
Painter's supplies	209 94
Horse furniture and stable supplies	127 88
Lawn and argricultural machinery	105 87
Fuel, keepers' boxes, Superintendent, etc	94 54
Office expenses	87 92
Tools and implements	76 74
General repairs	48 14
Horseshoeing	47 63
Hardware	24 60
	$28,435 86

CARROLL PARK.

Disbursements for the Year Ended December 31, 1899.

Pay rolls	$15,168 19
Supplies, general	3,675 02
Supplies, gardening department	2,610 48
Filling material	1,913 80
Electric lighting	1,165 13
Rolling stock	327 09
Building repairs	285 10
Water supply	175 39
Food, work animals	166 04
Lawn and agricultural machinery	106 88
Fuel, keeper's boxes, Superintendent, etc	103 88
Fuel, gardening department	80 92
Uniforms	78 01
General repairs	65 88
Painter's supplies	61 19
Office expenses	54 79
Tools and implements	51 38
Horse furniture and stable supplies	37 87
Gas and oil lighting	25 85
Hardware	21 44
Horseshoeing	18 00
	$26,192 33

Riverside Park.

Disbursements for the Year Ended December 31, 1899.

Pay-rolls	$4,893 48
Supplies	990 28
Supplies, gardening department	296 06
Building repairs	240 83
Rolling stock	170 00
Gas lighting	160 74
Water supply	159 83
Food, work animals	115 68
Uniforms	82 30
Lawn and agricultural machinery	81 30
Repairs	57 65
Painter's supplies	51 48
Electric lighting	42 00
Tools and implements	34 02
Horseshoeing	8 25
Fuel, keepers' box	4 34
Horse furniture and stable supplies	2 91
Hardware	2 30
	$7,393 45

Collington Park.

Disbursements for the Year Ended December 31, 1899.

Pay rolls	$3,806 48
Supplies	1,880 32
Building repairs	484 35
Supplies, gardening department	451 80
Electric lighting	333 80
Repairs, general	48 40
Water supply	27 30
Lawn and agricultural machinery	25 38
Uniforms	21 93
Office expenses	15 75
Tools and implements	14 36
Painter's supplies	12 23
Gas and oil lighting	11 38
Hardware	30
	$7,133 78

Federal Hill Park

Disbursements for the Year Ended December 31, 1899.

Pay rolls	$2,912 84
Supplies	186 94
Water supply	81 71
General repairs	68 55
Supplies, gardening department	54 32
Painter's supplies	17 65
Tools and implements	15 90
Gas and oil lighting	11 75
Lawn and agricultural machinery	11 10
Hardware	70
	$3,361 46

Johnston Park.

Disbursements for the Year Ended December 31, 1899.

Pay rolls	$2,363 41
Supplies	452 98
Supplies, gardening department	171 19
Building repairs	58 84
General repairs	42 15
Uniforms	27 70
Painter's supplies	24 45
Lawn and agricultural machinery	15 30
Office expenses	8 85
Hardware	8 55
Tools and implements	7 88
Rolling stock	7 20
Fuel, keeper's boxes	5 43
Gas and oil lighting	3 05
	$3 196 98

Mt. Royal Terraces.

Disbursements for the Year Ended December 31, 1899.

Pay rolls	$1,636 65
Supplies	143 55
Supplies, gardening department	113 66
General repairs	42 00
Gas and oil lighting	24 50
Tools and implements	19 30
Lawn and agricultural machinery	11 95
Painter's supplies	7 96
Water supply	6 72
Uniforms	5 00
Hardware	1 17
	$2,012 46

Bolton Park.

Disbursements for the Year Ended December 31, 1899.

Pay rolls	$1,312 07
Supplies, gardening department	28 53
Building repairs	20 50
Supplies, general	19 69
Lawn and agricultural machinery	13 90
Tools and implements	7 08
Water supply	5 34
Uniforms	5 00
Gas and oil lighting	1 68
Fuel, keeper's boxes	1 36
	$1,415 15

STATEMENT

Showing the Amounts Appropriated, the Amounts Expended and Unexpended Balances Returned from the Various Parks and Squares for the Year Ended December 31, 1899.

Parks and Squares.	Appropriation.	Expended.	Balance Returned
Ashland Square	$ 165 00	$ 149 92	$ 15 08
Bo-Lin Square	125 00	124 75	25
Broadway Squares, first division	1,800 00	1,609 47	190 53
Broadway Squares, second division	1,750 00	1,627 74	122 26
Broadway Squares, third division	1,750 00	1,737 81	12 19
Eastern Fountain	1,050 00	1,025 63	24 37
Eutaw Place Squares, first division	1,750 00	1,749 83	17
Eutaw Place Squares, second division	1,800 00	1,799 03	97
Franklin Square	1,250 00	1,244 66	5 34
Fulton Avenue Squares	2,090 00	2,084 93	5 07
Harlem Park	2,500 00	2,473 38	26 62
Jackson Square	1,000 00	974 76	25 24
Lafayette Square	1,600 00	1,504 74	95 26
Madison Square	1,635 00	1,556 83	78 17
Mt. Royal Squares	1,065 00	865 04	199 96
Mt. Vernon Place Squares	1,600 00	1,600 00	.....
Park Place Squares	750 00	639 98	110 02
Perkins Spring Square	1,450 00	1,213 84	236 16
Taney Place Squares	575 00	504 70	70 30
Union Square	1,500 00	1,499 96	04
Wilkens Avenue Squares	2,100 00	2,099 96	04
Totals	$29,305 00	$28,086 96	$1,218 04

Special Public Report.

BALTIMORE, July 17, 1899.

The Park Board deems it proper to make the following statement in regard to its action in inclosing the deer and ordering the removal of a portion of the fence around Druid Hill Park.

In the first place, the Board has always recognized that the parks are for the public at large, and that it is the duty of the Board to so manage them as to give the greatest pleasure to the greatest number, and the Board has been governed solely by this principle in coming to its conclusion.

It is a mistake to suppose that the question of inclosing the deer and removing the fence was first agitated by the property-holders in the vicinity of the southwestern portion of the park. In the early summer of 1894 a petition signed by over two hundred representative people from all portions of the city was presented to the then Park Board, requesting that the deer should be inclosed or entirely removed from the park, because they endangered the lives of persons driving in the park, many accidents having happened; made it impossible to have any shrubbery or undergrowth in the park; made it necessary to place boxing and lathing around all young trees, and because the streets of the city, as extended, should be opened directly into the park.

Among those signing were James Sloan, Jr., John A. Hambleton, Jenkins Bros., C. Morton Stewart, James A. Gary, John S. Gittings, David P. Busby, William T. Dixon, Richard Cromwell, Faris C. Pitt, Charles D. Fisher, Lawrason Riggs, J. B. N. Wyatt, Jesse Hilles, Charles B. Homer, Joseph R. Foard, Louis McLane, Aaron Bragg, Edwin Warfield, Reverdy Johnson, Theodore F. Willcox, David Bendann, Dr. I. E. Atkinson, J. Frank Supplee, Francis White, B. N. Baker, John Hubner, O. A. Kirkland, Henry James, J. W. Middendorf, George M. Sharp, John E. Hurst, George K. McGaw,

Wesley M. Oler, Joseph A. Bolgiano, Alexander Yearly, Jr., Louis Yakel, J. Wilcox Brown, and many others of equal prominence, and from all sections of the city; and on that list there is the name of only one of the property-holders, who are supposed to have inspired the action of the Board.

By consulting the papers of July, 1894, interviews with such gentlemen as General John Gill, President of the Mercantile Trust and Deposit Company; Mr. James Sloan, Jr., President of the Farmers and Merchants Bank; Mr. Charles D. Fisher and Colonel J. Frank Supplee will be found urging the Park Board to inclose the deer and to take down the fences.

This was brought to the attention of certain members of the present Board immediately upon their appointment, and before any communication, oral or otherwise, had been received from the property-owners. The Board was impressed with the importance of the matter, and from its first meeting at Druid Hill Park, shortly after its appointment, when the first delegation of property-holders appeared, down to last April, when it passed the resolution ordering the inclosure of the deer and the removal of the fence, has given the question its most earnest consideration.

There are two points involved: First, the inclosure of the deer; second, the removal of a portion of the fence.

It is a well-known fact that during the day the deer seek the most secluded portions of the park, and are rarely seen by any except those who drive in their carriages or who ride on horseback. The great mass of the people who only reach the park by the cars seldom, if ever, go to those portions of the park where the deer stay during the day. The deer are not, therefore, seen by the great mass of the people, but only by a few, and not always by them, and these few now object to placing the deer in an inclosure, because hereafter when the deer are seen by them they will not be seen in what is called their wild state. Against the desire of these comparatively few people, which is the only reason given for allowing the deer to roam at large, there are the following grounds why they should be confined in an inclosure:

(1.) While they cannot always be seen even when confined they are much more likely to be seen in the inclosure than when at large.

(2.) When unconfined they prevent the Board from doing the very thing the protestants and the Board both want; that is, preserve the natural beauty of the park.

The Board understands the natural beauty of the park to be its trees, grass and wild shrubs and flowers. These latter have nearly all been destroyed by the deer, and so long as the deer remain unconfined they cannot be replaced, and in setting out young trees the park must be disfigured by the boxes and lathing necessary for their protection.

It is the intention of the Board to plant, as rapidly as their means will permit, quantities of wild shrubbery, such as sumac, dogwood, laurel and ferns, and all possible varieties of wild roses, English ivy, Virginia creeper, clematis, wistaria, honeysuckle, and other climbing vines. It is thought that certain of these will be most attractive in the spring by reason of their blossoms and flowers, and others in the fall by reason of their foliage. They will be planted all through the park wherever suitable places can be found, and will be seen not only by a few people, but by all. In the opinion of the Board these wild shrubs and vines will make the park much more attractive, and afford infinitely more pleasure to the general public than an occasional glimpse of roaming deer.

As to the removal of the fence.

It was never intended to take down the whole fence so as to leave that portion of the park where the fence was removed absolutely unprotected. The resolution of the Board was to take down that portion of the fence beginning at a point near the Orem property and running to the Madison Avenue Gate, and to substitute for the fence so removed a suitable hedge.

The whole trend of modern progress in the matter of public parks, so far as the Board has been able to ascertain, is toward the removal of all unnecessary fences and to making the park as accessible as possible to all classes of people. Acting on this principle the Board, entirely of its own motion, removed

the fences around Patterson Park; has given the wheelmen more privileges than they asked, and has removed all notices to "keep off the grass." The fact that taking down the fence will benefit the people who live in that neighborhood is no argument against their removal, if such removal is otherwise for the best interest and welfare of the public at large.

It must be remembered that the vast majority of people going to Druid Hill Park go there either by the Central Line or the Traction Company's Lines, and that all the people from the western portion of the city enter the park at the Druid Hill Avenue Gate. The Board has considered it its duty to make this portion of the park as attractive as circumstances will permit, and has further thought it only right to provide for an entrance to the park nearly opposite the Central Line car barn, so that people going to the park by that line might not be compelled to walk two or three blocks before they could get into the park. This consideration may not appeal to gentlemen who drive to the park by the Mt. Royal Avenue or Eutaw Place entrance, but it is of importance to the mass of the people who go to the park by the cars and who have no other means of getting there.

It is not believed that the removal of this portion of the fence will cause the park to be overrun with mad dogs, tramps, drunken men or wild cows, and it is believed that the park may still be used with reasonable safety by the wives and children of the people of Baltimore. It will be remembered that the same outcry was made when the railings and fences were taken down from the squares in the city, and it was asserted with great vehemence that these squares would be overrun and entirely occupied by dogs, tramps and immoral persons. Experience has shown that these fears were not well founded. Furthermore the portion of the park from which it is proposed to remove the fence will be protected by the houses that are built opposite thereto, by the constant passage of people to and fro and by the bicycle patrolmen, and the Board thinks the apprehension in this regard is not based on any facts, because the gatekeepers report that stray dogs have not been seen near this portion of the park for over a year, and

that tramps and drunken men never come there; nor is there any record of the appearance of a wild cow. It is true this portion of the park may not remain as secluded and quiet as it is now—more people may use it—but the Board has not thought that the parks are maintained for the benefit of the few, but for the good of the many. And so far as improper characters are concerned, it is well known that the more public a place is made the less they will frequent it.

It is to be remembered that in April, 1898, the newspapers published the fact that delegations had been before the Board requesting the removal of the fences. This was again brought prominently before the public by the press in March, 1899, when both Branches of the City Council passed unanimous resolutions asking that the fence be taken down, which resolutions were approved by the Mayor and sent to the Board. Again, in April last, it was announced in the press that the Board proposed to place the deer in an enclosure, to take down a portion of the fence and to substitute a hedge for the portion of the fence so removed. In other words, this was brought before the public three times in the period of a little over one year, and no voice, so far as this Board knows, was raised in protest or against their action, and no one was heard to complain until the enclosure for the deer was in process of erection.

It cannot truthfully be said that the gentlemen, now opposing the Board's action, represent public sentiment, any more than did the gentlemen, who, in 1894, asked for the very thing that is now being done.

The Board regrets that its action is not approved by all, but it has given the matter the best consideration of which it is capable, and has done what it thinks best for the interests of the public at large. Certain it is that it has been guided by no other motive.

By order of the Board,

JOHN N. STEELE,
Secretary.

Standing Rules.

Adopted September 26th, 1899.

1. The organization of the Park Commission shall be effected by the election of a secretary, who shall be elected at the first annual meeting of the Board, and who shall be elected for the term of one year.

2. The President shall preside at all the meetings of the Board, and shall have the power to decide upon all questions necessary for the guidance of the General Superintendent, Landscape Architect, local superintendents, or any other officers in reference to their respective duties. He shall sign all pay rolls. He shall call special meetings of the Board whenever he deems it necessary, or when requested to do so by two members of the Board. He shall appoint all standing committees and likewise all special committees, unless otherwise provided for by a resolution of the Board. He shall perform all other executive duties not otherwise provided for by the action of the Board, and prepare an annual report to the Mayor and City Council.

3. The Secretary shall keep the minutes of the meetings of the Board and conduct the correspondence; he shall have charge of the payment of all salaries and bills, and shall make a monthly report of payments, and prepare annually tabulated statements of all the receipts and expenditures of the Board.

4. The regular meetings of the Board shall be held on the second Thursday of each month. Special meetings, when called by the President, as provided in Section 2.

5. The President shall annually appoint the following Standing Committees, each consisting of two members: Committee on Finance, Committee on Supplies, Committee on Improvements; Committees of two each, on Druid Hill Park, Clifton Park, Patterson Park, Carroll Park, Riverside and Federal Hill Parks, Collington and Johnston Parks.

6. The Committee on Finance shall, at the beginning of the year, estimate the receipts of the Board and the approximate payments for salaries and current expenses. They shall, as near as possible, apportion the surplus, which can be used for permanent improvements in all of the various parks. They shall report at the beginning of each quarter the amounts which have been used in the various parks for such improvements, so as to prevent any measures being undertaken without the funds being sufficient to pay for them.

7. The Committee on Supplies shall have the direction and control of the purchase of all the current supplies for the Park Commission. They shall have power to make necessary purchases to the extent of

$100, reporting the same monthly to the Board. They shall certify all bills as correct before they are paid. They shall advertise for all purchases for current supplies when they deem it advisable for the best interests of the city, and they shall consult with the Board of Awards of the City of Baltimore when the contracts are decided on.

8. The Committee on Improvements shall consider all proposals for permanent improvements in any park, and shall report upon the advisability of all such measures In cases where it is necessary to give the work out by contract, they shall advertise for bids, and shall award the contract to the lowest responsible bidder. If the work decided upon is to be performed by the park employees, they shall give directions to the General Superintendent. They shall report to the Board upon the completion of all such improvements.

9. The committees on the various parks shall pay special attention to the same by visiting their respective parks. They shall regularly examine the Superintendent's diary. They shall advise with the Superintendents of the various parks in reference to the appointment of employees. All minor matters of detail which may arise in the various parks shall be decided by the respective committees, whose action shall be final. They shall receive and examine the monthly reports of the Superintendents of their respective parks, and at each regular meeting report to the Board.

Reorganization.

Adopted September 26, 1899.

Whereas, the present City Charter provides for certain changes in the management and control of all the parks and squares in the City of Baltimore, which shall take effect in the year 1900; therefore be it

Resolved, That all existing rules in reference to officers and their appointment are hereby rescinded and the following adopted instead:

1. The Board shall appoint a General Superintendent, Landscape Architect, Bookkeeper and Correspondent, Secretary and Treasurer, and local Superintendents of Druid Hill Park, Patterson Park, Clifton Park, Carroll Park and Riverside Park.

In addition to the above there shall be appointed for the term of one year a Keeper for the following parks: Collington Park, Johnston Park, Federal Hill Park, Mt. Royal Terraces and Bolton Park.

2. The officers herein named shall be elected by the Board for the term of one year. In the event of a vacancy in any of these positions, by resignation or otherwise, the appointment of a successor shall be made for the remainder of the unexpired term.

3. The salaries of all of the Officers, Superintendents and Keepers shall be fixed for the term of one year at the first annual meeting of the Board.

4. The General Superintendent shall have the general management and control over all the parks of the city. He shall visit all the parks at regular intervals and have the plans as laid out by the Board from time to time executed. He shall convey to the local Superintendents the orders of the Board, and report to the Board any local Superintendent who may not be faithful in the performance of his duties. He shall report upon the number of gate-keepers and patrolmen necessary in each of the parks, locate the districts to be patrolled, and determine how often they should be patrolled, giving all these instructions to the local Superintendents, to be executed by them.

He shall consult with the local Superintendents of the parks upon all questions arising under their management, and shall decide upon the propriety of all requisitions made by them, and he shall issue orders for all the supplies required for current wants, which are approved by the Board. He shall make all purchases not provided by contract to the best advantage of the Board, both as to quality and price, as directed by the Committee on Supplies. He shall verify all bills to the extent that the articles have been received and that the prices are correct.

He shall suspend any employee of the parks whom he may discover to be unfaithful, or who violates the rules of the Board, and report his action to the Board.

He shall have a book of record kept in the general office by the book-keeper, of all applicants for work in the parks, indicating the position applied for. He shall make an examination as to the fitness of all such applicants and note the result of his examination on this book of record. If any member of the Board certifies to the character of the applicant, he shall note the fact on this record book. Unless the applicant has such a certificate, then the General Superintendent shall examine the references of the applicant and make a report upon his character in the book of record. This book shall be open to the inspection of the Landscape Architect and the local Superintendents, for the purpose of making their appointments.

He shall make a monthly report to the Board upon all matters of general importance, and prepare an annual report upon the condition of all the parks, which shall be embodied in the annual report of the Board.

5. The Landscape Architect must be of recognized ability in his profession, and shall have charge of all work in the various parks which pertains to the landscape, trees, flower beds, shrubbery, etc., and shall have direct control of all propagating houses in the various parks, and give directions for everything pertaining to the cultivation of flowers. He shall lay out all the designs for the various flower beds in the parks, and have the entire supervision of this portion of the improvement of the parks.

He shall make the plans for any roads or changes in roads, which shall be submitted to the Board and approved before being constructed.

He shall, upon consultation with the Committee on Supplies, purchase all flowers, shrubs, fertilizers, etc., which may be necessary in the conduct of this department, and shall verify the correctness of all such bills.

If any of the employees in the parks, who are connected in any manner with the Horticultural Department, are not efficient in their duties, he shall be required to report the same to the Board for dismissal. He shall make a monthly report to the Board upon the condition of the propagating houses, and all other matters which are under his supervision. He shall make an annual report, which shall be embodied in the annual report of the Board.

6. The Book-keeper and Correspondent shall keep all the books of the Park Commission under the direction of the Secretary of the Board, act as stenographer for the general officers and perform such other duties as may be designated by the Board.

7. The local Superintendents of the various parks shall have complete control of the respective parks under their jurisdiction. They

shall at all times recognize the General Superintendent as the executive officer of the Board, and be prepared to constantly consult with him upon every feature of their administration. They shall receive orders from the General Superintendent and execute them with fidelity. They shall take charge of all the property of the city which is kept within the boundaries of their respective parks. They shall keep a correct record of all machinery, tools, fixtures, etc., in a book, and shall report upon the condition of this property semi-annually to the Board. Each Superintendent shall have the appointment, with the advice of the respective Park Committees of the Board, of the various patrolmen, watchmen, gatemen, gardeners, laborers, hostlers, etc., who may be employed in the respective parks, and may select them from the record book of applications at the General Superintendent's office. He shall keep a record book of the employees of his park, and indicate in detail the duties which are required of each one. He shall at all times have a personal supervision over all the employees of his park, and require that they shall strictly perform their duties. He shall be responsible for each and every employee under him, and report promptly to his Park Committee any employee who is unfaithful to his work or who has violated any of the rules of the Board. He shall have power, if in his judgment it is necessary, to suspend any employee and temporarily fill his place, if urgent, and report the entire case to the Committee. If employees are found absent without leave, he shall immediately suspend the same and report to his Park Committee. He shall consult with the General Superintendent with reference to all temporary employees, and with his consent dispense with the services of all helpers who may no longer be needed, so that no unnecessary force need be retained. He shall require that all employees report at headquarters at the proper time when they go on duty, and that they likewise report when they go off duty or leave their work. He shall also keep a time-book, noting the time every one serves on duty.

He shall make requisitions upon the General Superintendent for all current supplies needed, and keep a record of all articles received.

The local Superintendents should reside in the respective parks or in the immediate vicinity, and be on duty every day in the week, except at such hours as may be agreed upon with the Park Committee.

Each Superintendent shall keep a diary of the work done each day, and note any special events which may transpire in the park. Whenever he is absent from the park he shall note the same on the diary and shall place a subordinate in charge, who shall have the same authority in his absence. He shall make a monthly report to the Board in writing in reference to all work done during the month, and in reference to everything which he may find necessary to bring to the attention of the Board.

ANNUAL REPORT

—— OF THE ——

TRUSTEES OF THE POOR

OF THE CITY OF BALTIMORE,

—— TO THE ——

Mayor and City Council of Baltimore

—— FOR THE ——

FISCAL YEAR ENDED DECEMBER 31, 1899.

BALTIMORE:
WM. J. C. DULANY CO., PUBLIC PRINTERS.

1900

Trustees of the Poor.

ELISHA H. PERKINS, *President.*

JOSEPH GRAPE, *Secretary,*

MARY SHERWOOD, M.D.

MARY G. ECCLES.

WILLIAM T. PRIME.

FRANK S. LEWIS, D.D.S.

HENRY BRUNT.

OFFICIAL STAFF.

CITY OFFICE,

CITY HALL ANNEX,

NORTH GAY STREET, BETWEEN LEXINGTON AND SARATOGA STREETS.

Permit Clerk, - - - - LORENZO B. GOUGH.

Assistant Clerk, - - - - MRS E. DUVALL.

REPORT

BALTIMORE, December 31, 1899.

To the Honorable the Mayor and City Council of Baltimore:

GENTLEMEN:—The undersigned, Trustees of the Poor, beg herewith to submit their second annual report:

It is with feelings of regret that we note the death of our late associate member, Mr. John W. Bond, which occurred on April 11, last. During his career as a member of the Board Mr. Bond served with faithfulness in all the duties entrusted to him, and as his colleagues we desire to bear testimony to his efficiency as an official of our municipality. The vacancy caused by the death of Mr. Bond was filled by the appointment of Mr. Henry Brunt.

This will be the last report to be rendered by the body known as the "Trustees of the Poor," for our successors in office, soon to be appointed, will be known as the "Supervisors of City Charities," and will be nine in number rather than seven; as at present, and will have their duties and sphere of usefulness and influence greatly enlarged. We rejoice in this development under our New Charter, and believe it has moved along right lines, and that experience will make clear that the new and enlarged powers granted to our successors will need to be increased and broadened, rather than curtailed.

As will be seen from a reading of the subjoined reports, the past year has been one of adherence to well-defined policy and has witnessed the completion of several most important improvements. The application of sensible business methods has resulted in efficient service and a satisfactory year's record in the several departments.

CITY OFFICE.

APPLICATION BUREAU.

In no department has the advantage of such methods been more apparent than in the City Hall office, where application must be made for admission to Bayview Asylum and the various hospitals caring for the city poor; also for the help of the transportation fund.

The policy of investigation of all cases has produced the direct result shown in the following table:

TABLE SHOWING NUMBER OF ADMISSIONS TO BAYVIEW ASYLUM AND THEIR AGES FOR FOUR CONSECUTIVE YEARS.

	1899.	1898.	1897.	1896.
1 year old	1	1	3	5
1 to 10	3	3	2	6
10 to 20	42	40	52	112
20 to 30	183	236	223	1176
30 to 40	259	265	295	1563
40 to 50	336	330	394	1198
50 to 60	309	279	312	703
60 to 70	207	247	229	416
70 to 80	106	123	116	98
80 to 90	31	25	21	20
90 to 100	1	0	2	2
Over 100	.....	1	0	2
Unknown	.....	3	7	17
Born in Almshouse	5	8	15	6
Totals	1483	1561	1671	5324

While in 1896, before the introduction of present methods, the gross number of admissions to the almshouse was 5,324, this number fell very sharply in 1897, after the introduction of present methods, and year by year thereafter, to 1,483 in 1899—a decrease of 3,841, or nearly two-thirds, 58 less than last year, and less than one-third of the number receiving the city's hospitality in 1896.

The same table shows a most significant fact with reference to the age of applicants for city aid. The largest number in 1896 falls within the decade 30-40, while in the three succeeding years the policy of investigation and the work test have easily thrown the greatest number of admissions into the next decade 40-50; or, in other words, there is a gradual tendency towards the exclusion of the able-bodied from the privileges of the almshouse in favor of those who are a more legitimate charge upon the city—its aged poor.

HOSPITAL SUPERVISION.

The same tendency to the furthering of the city's interest, with no detriment to the class of people concerned—the sick poor—is shown by the study of the results of business methods in our dealings with the various hospitals.

The table appended shows the monthly and total cost to the city for the care of the indigent sick, exclusive of the number cared for in the hospital wards at Bayview.

The sum appropriated by the city for this purpose in 1899 was $55,000. Of this sum, $7,431.21 reverts to the city treasury.

The total number of patients cared for was 7,167; the total number of days paid for, 102,493 In 1898 the number of patients was 7,845; number of days, 106,721.

The figures are in contrast to the records of former years, when $63,000 was appropriated annually for this purpose, and when the whole sum was annually expended without questioning the right of the individual's claim upon the city's charity.

TABLE SHOWING NUMBER OF CITY PATIENTS TREATED IN NINE (9) HOSPITALS; NUMBER OF DAYS PAID FOR, AND SUM EXPENDED FOR EACH MONTH OF THE YEAR 1899.

Month.	*Number of Patients.*	*Aggregate of Days Paid for.*	*Cost.*
December, 1898	661	9,145	$4,245 88
January, 1899	638	9,446	4,385 66
February, "	567	7,787	3,698 95
March, "	545	8,500	3,946 43
April, "	550	8,070	3,737 49
May, "	541	8,291	3,849 40
June, "	578	8,127	3,773 25
July, "	630	8,957	4,158 59
August, "	610	8,537	3,955 71
Septem'r, "	607	8,251	3,830 81
October "	647	8,818	4,094 06
Novem'r, "	593	8,384	3,892 56
Totals	7,167	102,493	$47,568 79

Appropriation for 1898	$56,480 00
Unexpended and saved	5,852 44
Appropriation for 1899	55,000 00
Unexpended and saved	7,431 21

TRANSPORTATION OF POOR TO THEIR HOMES.

Report from January 1, 1899, to December 31, 1899, inclusive.

Month.	Applicants.	Sent.	Cost.	Refunded	Real Cost.
January	37	12	$48 45	$ 8 50	$39 95
February	37	11	38 41	5 75	32 66
March	34	4	21 05		21 05
April	23	11	28 09	3 20	24 89
May	16	11	30 05	3 20	26 85
June	40	24	33 61	3 40	30 21
July	35	18	80 41	6 50	73 91
August	33	9	27 33	7 00	20 33
September	29	9	40 58	14 50	26 08
October	28	4	20 84	7 00	13 84
November	30	22	102 19	3 00	99 19
December	21	7	23 83	1 28	22 55
Totals	363	142	$494 84	$63 33	$431 51

	1899.	1898.
Received and investigated	363	514
Approved " "	142	189
Paid for wholly by city	127	154
Paid for by friends	15	25
Returned by beneficiaries	$63 33	$76 12

Expended from January 1 to December 27, 1899	$494 84
Railroad bills presented after January 1, 1899, for 1898	83 53
Received from City Register for stamps and incidentals	44 06
Expended in 1899	$622 43
" 1898	739 23

Appropriation for transportation		$750 00
Expended		622 43
Balance		127 57
Refunded to city		63 33
Turned over to sinking fund		190 90

During the year 110 applicants refused investigation; 49 of these refused to give addresses of friends or relatives.

This report shows several encouraging facts in comparison with 1898.

First, that a smaller number of persons have become stranded in Baltimore and have applied for public aid in the year just ended than during 1898.

Second, that 47 less, after investigation, had to be aided.

Third, that a smaller amount was expended than in 1898.

And, lastly, that a larger percentage of the money expended was returned by the beneficiaries—12.7 per cent., against 11.1 per cent. in 1898.

We desire to renew our expression of appreciation of the courtesy of individuals, corporations, hospital officials and all others who have co-operated with us in our attempts under the existing laws, to so administer the funds entrusted to our care as to be just to the taxpayers as well as merciful to the several classes of city poor concerned.

The success of our work at the City Office has been due in large measure to the able work of our permit clerk and his assistant, whose energy and faithfulness we cannot too warmly commend.

BAYVIEW ASYLUM.

A number of minor improvements and repairs have been made, but three stand out as worthy of especial mention.

The erection of the three-story connection between the main building and the east wing on the male side not only affords admirable sun-porches in winter—greatly enjoyed by the inmates and adding to their healthfulness—but also greatly reduces the risk of loss of life in case of fire. The fine bathing conveniences in the insane women's building, provided largely through the help of the "Society for the Employment of Insane Women," has proven a most valuable improvement. Its facilities are greatly enjoyed and furnish large assistance in promoting the health and cleanliness of a large and difficult class of our inmates. A much-needed horse barn has been provided, and proper stabling is now available for our herd of cows, which this year provided the very large quantity of milk needed for the many old people and sick under our care.

A most important improvement has been made which can scarcely be called a minor improvement.

Through the wise liberality of the Mayor and City Council, in spite of need for great economy, a special appropriation of $10,000 was made early in the year, which enabled us to put into service two new boilers, in addition to the four already in use, which had to be so pushed last winter that serious consequences to our large population would have resulted had any one of them, from accident or otherwise, been rendered useless, even for a short time. With this addition we have increased our horse-power from 380 to 570, and have provided for the necessary and proper "resting" of the boilers in rotation, and rendered the institution secure against a possible failure of heat or lighting, which we greatly feared as likely to occur last winter.

We have great satisfaction in our hospital wards and are confident that they do not suffer by comparison. There is no reason why a larger number of patients should not thus be cared for directly by the city. The medical staff are justly

proud of their work and the improved facilities furnished them. It is still felt, however, that some things are yet needed. We have no means of affording separate accommodations for the female phthisis patients, nor for the suitable isolation of contagious diseases.

While waiting for the State to provide for all its insane, we do the best we can with the nearly four hundred patients under our care; but little opportunity is afforded for curative work, a result to be hopefully sought, especially in the earlier stages; for every cured person is not only in so far a relief to the expense account of the State, but becomes a producer rather than a charge.

In this department better diet is much needed; a larger number of attendants should be had, as we now have only one to over twenty; some facilities for light regular employment, and some house space to allow of the separation of the helpless, inoffensive, infirm and aged insane from the other classes of these sadly-afflicted ones. Provision should also be made in the insane department for the isolation of tuberculous patients. Although the number is small, still their presence is a menace to the other patients and their isolation an imperative necessity. But all these most desirable changes require increased appropriations from the city.

There are two improvements, however, which should be certainly made in 1900. The sun-porches on the west side should be completed, and thus provide equally well for the female side of the house in case of fire. Fire-escapes should be erected for the two buildings for the insane; this is imperatively needed, for we dread the consequences of a fire in these two buildings, overcrowded as they are with a practically helpless class. To provide these, we fear a special appropriation will be necessary.

The most intelligent care of the dependent classes should provide for the segregation of these different classes with their varying needs.

It is manifestly unfair and a short-sighted policy to endeavor to treat them all under the one designation—paupers—and to consign them to an almshouse so overcrowded that only a rude attempt can be made to give each one the consideration suitable to his or her individual existence.

We sincerely hope that our successors may be able to solve the difficult problem of the suitable classification of the almshouse inmates.

The hoped-for removal of all the insane to State institutions would make it possible to use the present buildings of the insane department as a city hospital, thus removing from the main building the present hospital wards. This would give space in the main building for the differentiation of the almshouse inmates proper, and for the better accommodation of the shifting winter population.

The Trustees desire to bear earnest testimony to the faithfulness and zeal displayed by the Official Staff of the department under their care. Also to the efficient service of the Medical and Surgical Staff, both resident and visiting.

Respectfully submitted,

ELISHA H. PERKINS, *President.*
JOSEPH GRAPE, *Secretary.*
MARY SHERWOOD, M.D.
MARY G. ECCLES.
W. T. PRIME.
FRANK S. LEWIS, D.D.S.
HENRY BRUNT.

FINANCIAL STATEMENT.

Amount of appropriation account of salaries	$23,000 00	
Amount of appropriation acc't of expenses...	77,000 00	
		$100,000 00
Amount of appropriation withdrawn on vouchers by Trustees of the Poor—		
Salaries	$22,926 00	
Expenses	76,976 53	
Amount of appropriation unexpended	97 47	
		100,000 00
Classified Expenditures—		
Provisions, general supplies, light, fuel, salaries		$95,338 76
Repairs and Improvements, viz—		
Addition to kitchen	$ 632 99	
Addition to sun porches, east side	1,412 28	
Completing new barn	1,520 23	
New machinery for laundry	190 00	
Steam soup kettles	338 60	
Improvements at front gate	129 67	
		4,223 77
Per diem, board of Trustees		340 00
		$99,902 53
Amount of Appropriation Unexpended—		
Salaries	$74 00	
Expenses	23 47	
		97 47
		$100,000 00

Amounts received on the following accounts and paid to City Register, in compliance with City Ordinance—		
Board of inmates	$528 06	
Sales of old material	194 80	
		$722 86

TABLE SHOWING DIVISION OF DISBURSEMENTS.

Administration		$10,773 21
General house		32,058 18
Insane		25,402 75
Hospital		23,412 67
Farm		4,031 95
		$95,678 76
Less revenue returned to City Register		722 86
		$94,955 90
Average census, $1.219\frac{5}{8}$.		
Net cost per capita as to maintenance, including all departments, 1898, $\$76.90\frac{74}{100}$; 1899, $77.87.		
Repairs and improvements		4,223 77
		$99,179 67
Gross cost per capita 1898, $\$87.49\frac{89}{100}$; 1899, $\$81.33\frac{37}{100}$.		
Expended of appropriation	$99,902 53	
Less revenue returned to City Register	722 86	
		$99,179 67

Special appropriation for new boilers		$10,000 00
Expended on account of above	$9,654 64	
Unexpended	345 36	
		$10,000 00

REPORT AND TABULAR STATEMENT

—OF THE—

SUPERINTENDENT,

MARKED "A" TO "J,"

FOR THE YEAR 1899.

OFFICIAL STAFF.

BAYVIEW ASYLUM.

Superintendent,	LOUIS F. ZINKHAN.
Clerk and Purveyor,	JOHN E. DORSEY.
Head Matron,	MISS N. E. WORSLEY.
Centre-House Matron,	MISS MINNIE HILLEGIST.
Head Nurse,	MISS ATHALIA LORD.
Apothecary,	A. W. McGLANNAN, PH. G.
Engineer,	JAMES J. FARRELL.
Assistant Engineer,	WILLIAM H. STEVENS.
Farmer and Gardener,	MALTEER STANDIFORD.
Messenger,	OSCAR NAGLE.
Baker,	E. C. THOMAS.
Supervisor—Insane Dep't (Male),	LOUIS WINKLER.
Supervisor--Insane Dep't (Female),	MRS. EMMA GREENFIELD

REPORT OF THE SUPERINTENDENT.

BAYVIEW ASYLUM, December 31, 1899.

To the President and Board of Trustees of the Poor:

During the past year Bayview Asylum has taken care of 2,777 persons. The whole number of admissions for the year was 1,483. Of these, 175 were readmissions. The smallest number present at any one time was 1,126 on the 8th day of June, and the largest number was 1,383 on the 19th day of February.

The daily average has been 1,219 5-12, as against 1,186 4-12 for the year 1898. The increase in the population was confined to colored patients. All the wards for colored patients are crowded, and unless there is a falling off more ample provision will have to be made for them.

The class of patients received in the last year were, many of them, very feeble; others at the point of death when they reached us. Besides, there has been a decided increase in phthisical patients since the completion of the separate building for these patients. This accounts for our increased death rate.

During the year seventy-nine vagrants and habitual beggars were committed by the magistrates and courts. In 1898 the number was 148, and in 1897 it was 192.

The year has been one of aggressive work, and many needed improvements made show the untiring and pains-taking interest of the Trustees.

In the Hospital Department the lavatories have been made brighter; beautiful sun-porches have been provided, which are a constant comfort and delight to the patients, and which, in emergency, will answer as fire-escapes. Several wards have been repainted, some new stairways and floors were

laid, and the force of nurses has been increased. Trained nurses have also been put on night duty in all the hospital wards.

In the Insane Department a beautiful modern Gegenstrom bath-room has been provided, mainly through the kindness of the "Society for the Employment of Insane Women." New dishes and knives and forks have been placed in several wards, and the dormitories have been brightened by the needle work of the patients.

On the farm some new fences have been constructed, a new horse barn has been erected and the old barn improved, so that it now affords stabling for forty cows. The arch gate has been repainted and the grounds around it embellished; and an addition has been provided to the gate-keeper's house.

Two new steam kettles have been placed in the county kitchen, the officers' kitchen has been thoroughly overhauled and improved, the coal scales reset, and the gas plant repaired. New fire hose was provided on a number of the wards, and automatic closets to replace some old ones.

The Chapel was fitted up with stained glass windows and more comfortable pews, out of private funds. The old pews are utilized on the porches and recreation yards.

A number of drain pipes have been laid to get rid of the surface drainage.

Among the improvements most needed in the immediate future are sun-porches for the Female Hospital; a fire-escape for the insane women's building; a new kitchen and laundry, and a large dining-room for men, so that additional sleeping rooms may be secured to relieve over-crowding. We should also provide a more varied diet for our almshouse patients.

Our physicians have been thoroughly efficient and attentive to their work. With rare exception the same may be said of all the officers and attendants of the institution. We greatly regretted the leaving of Dr. R. E. Garrett, the resident physician in the insane department. He was exceptionally faithful in all his work.

The pride of the institution has been its cleanliness. The comfort of the patients have been carefully looked after. Much enjoyment has been given to the inmates by providing frequent entertainments during the winter months. Many earnest Christian workers of Protestant and Catholic faith have daily ministered to the troubled and sick. We have appreciated their noble work, and have given it every encouragement.

I am deeply grateful to the Trustees for their continued kindness, faithful counsels and earnest work.

Very respectfully,

LOUIS F. ZINKHAN, *Superintendent.*

TABLE A.

Showing the Number of Persons Admitted, Born, Died, Discharged, Escaped, etc., the Number Remaining at the End of Each Month, and a Comparison with 1898.

1899.	Admitted.		Born.		Died.		Discharged.		Escaped.		Granted passes and did not return.		Remaining.	
	1899	1898	1899	1898	1899	1898	1899	1898	1899	1898	1899	1898	1899	1898
Jan.	132	145	.....	1	26	22	55	93	2	1	4	7	1339	1365
Feb.	155	138	1	1	27	20	99	96	1	3	7	14	1361	1371
Mar.	100	154	.....	.....	21	22	130	249	2	5	21	14	1287	1235
Apr.	95	105	.....	2	28	27	134	116	4	6	22	10	1194	1183
May	101	98	.....	.....	25	22	124	164	2	9	11	11	1133	1075
June.	133	120	.....	1	22	13	79	79	2	4	14	6	1149	1094
July	104	137	1	.....	20	27	64	94	4	.....	11	10	1155	1100
Aug.	112	90	.....	1	21	16	81	81	.....	1	8	6	1157	1087
Sept.	106	101	1	.....	14	23	63	69	1	1	14	5	1172	1090
Oct.	114	136	1	1	26	21	61	55	6	7	12	9	1182	1135
Nov.	125	151	1	1	22	17	56	58	1	1	11	3	1218	1208
Dec.	201	178	.....	.....	22	19	74	65	2	6	5	2	1316	1294
Totals...	1478	1553	5	8	274	249	1020	1219	27	44	140	97	.....	.....

	1899.	1899.	1898.	1898.
In the Asylum Dec. 31, 1898	1294	.....	1342	.....
Total ingress (inc. readmissions)	1483	2777	1561	2903
Total egress	.....	1461	.....	1609
In the Asylum Dec. 31, 1899	.....	1316	.....	1294

SUPPLEMENT TO TABLE A.

Showing the Number of Single Admissions and Readmissions, also a Comparison with 1898.

	1899.	1898.
Single admissions	1254	1348
Readmissions	229	213
	1483	1561

1899.	1898.		
153	136	Admitted to Asylum	2 times.
26	29	" "	3 "
5	5	" "	4 "
1	1	" "	5 "
1	.....	" "	6 "

TABLE B.

Showing the Birth-Place of Persons Admitted to the Almshouse from January 1, 1899, to December 31, 1899; also a Comparison with 1898.

NATIVES.	1899.	1898.	FOREIGNERS.	1899.	1898.
Baltimore	483	482	Ireland	222	234
Maryland	175	228	Germany	166	165
Virginia	76	106	Italy	2	5
Pennsylvania	60	56	Russia	22	17
New York	53	54	England	26	16
District of Columbia.	16	21	Scotland	16	12
North Carolina	21	18	Poland (Russia)	9	12
Ohio	8	13	Austria	6	7
Massachusetts	14	11	France	9	6
New Jersey	6	8	Sweden	.....	4
Delaware	5	8	Denmark	3	3
Louisiana	3	5	West Indies	2	2
West Virginia	.....	5	Wales	6	3
Missouri	2	3	Australia	.....	2
Wisconsin	3	3	Spain	.....	1
South Carolina	6	3	Africa	2	1
Illinois	3	2	Jamaica	.....	1
Alabama	1	2	Mexico	.....	1
Minnesota	1	2	Belgium	.....	1
Maine	3	2	Norway	3	1
Connecticut	4	2	Switzerland	2	1
New Hampshire	.....	2	Canada	5	.....
Vermont	.....	1	Brazil	2	.....
California	.....	1	Bohemia	7	.....
Mississippi	2	1	Portugal	1	.....
Oregon	.....	1	Holland	1	.....
Rhode Island	4	1	Greece	1	.....
Arkansas	.....	1	East India	1	.....
Kentucky	3	1	China	1	.....
Georgia	.....	1	British Guiana	1	.....
Florida	2	1			
Michigan	.....	1		516	495
Indiana	2	.....			
Tennessee	3	.....			
Nebraska	1	.....			
Unknown	2	12			
Almshouse	5	8	Natives	967	1,066
	967	1,066		1,483	1,561

TABLE C.

Showing the Ages of Persons Admitted to the Almshouse from January 1, 1899, to December 31, 1899: also a comparison with 1898.

	1899.	1898.
Under 1 year	1	1
From 1 year to 10 years	3	3
" 10 " " 20 "	42	40
" 20 " " 30 "	183	236
" 30 " " 40 "	259	265
" 40 " " 50 "	336	330
" 50 " " 60 "	309	279
" 60 " " 70 "	207	247
" 70 " " 80 "	106	123
" 80 " " 90 "	31	25
" 90 " " 100 "	1	.....
At 104 years	.....	1
Unknown	.....	3
Born in almshouse	5	8
Totals	1,483	1,561

TABLE D.

Showing the Period of Residence in the City of All Persons Admitted to Almshouse from January 1, 1899, to December 31, 1899; also a comparison with 1898.

	1899.	1898.
Born in Baltimore	483	481
Less than one week	49	67
One week and less than one month	43	24
One month and less than three	23	27
Three months and less than six	11	31
Six months and less than twelve	19	24
One year and less than two	15	18
Over two years	828	864
Unknown	7	17
Born in Almshouse	5	8
	1,483	1,561

TABLE E.

Showing Daily and Monthly Averages of Persons Remaining in Almshouse from January 1, 1899, to December 31, 1899; also a Comparison of Averages with 1898.

1899.	White.			Colored.			Total Daily Averages.		Where From.				Totals.	
	Men.	Women.	Children.	Men.	Women.	Children.	1899.	1898.	Natives of city and one year's residence. 1899.	1898.	Elsewhere. 1899.	1898.	1899.	1898.
January	633	394	7	131	150	2	1,317	1,355	1,301	1,326	16	29	1,317	1,355
February	660	395	7	148	150	2	1,362	1,376	1,338	1,349	24	27	1,362	1,376
March	631	390	7	150	151	4	1,333	1,309	1,322	1,274	11	35	1,333	1,309
April	539	384	7	144	153	5	1,232	1,201	1,227	1,167	5	34	1,232	1,201
May	474	384	8	132	155	4	1,157	1,136	1,150	1,116	7	20	1,157	1,136
June	456	391	9	126	153	3	1,138	1,072	1,126	1,054	12	18	1,138	1,072
July	474	391	9	127	149	4	1,154	1,095	1,141	1,075	13	20	1,154	1,095
August	480	385	9	129	149	4	1,156	1,082	1,140	1,067	16	15	1,156	1,082
September	489	382	9	124	153	5	1,162	1,085	1,157	1,071	5	14	1,162	1,085
October	509	379	10	121	153	4	1,176	1,108	1,165	1,086	11	22	1,176	1,108
November	534	376	10	123	149	3	1,195	1,163	1,179	1,139	16	24	1,195	1,163
December	588	375	9	129	147	3	1,251	1,254	1,234	1,220	17	34	1,251	1,254
Totals	6,467	4,626	101	1,584	1,812	43	14,633	14,236	14,480	13,944	153	292	14,633	14,236
Monthly averagings, 1899.	$538\frac{11}{12}$	$385\frac{6}{12}$	$8\frac{5}{12}$	132	151	$3\frac{7}{12}$	$1,219\frac{5}{12}$	.....	$1,206\frac{8}{12}$	.....	$12\frac{9}{12}$	.....	$1,219\frac{5}{12}$	.....
Monthly averagings, 1898.	$538\frac{11}{12}$	$388\frac{8}{12}$	$9\frac{1}{12}$	$115\frac{7}{12}$	133	$\frac{10}{12}$	.....	$1,186\frac{1}{12}$	.....	1,162	.....	$24\frac{4}{12}$	.....	$1,186\frac{1}{12}$

TABLE F.

Showing the Number of Persons Committed to the Almshouse by Magistrates and their Age, Sex, Color and Period of Commitment from January 1, 1899, to December 31, 1899; also a Comparison with 1898.

Committed 1899.	Sex and Age.					Period of Commitment.					
	White Males, 17 yrs. and over.	White Females, 18 yrs. and over.	Colored Males, 18 yrs. and over.	Colored Females, 18 yrs. and over.	Totals.	One week.	Two weeks.	Three weeks.	One month.	Two months.	Totals.
January	2	4	1	.....	7	.....	.....	.....	1	6	.....
February	3	2	3	2	10	.....	.....	.....	.....	10	.....
March	1	3	1	.....	5	.....	.....	.....	.....	5	.....
April	2	3	1	.....	6	1	.....	.....	.....	5	.....
May	4	3	.....	.....	7	.....	1	.....	.....	6	.....
June	4	5	2	.....	11	.....	.....	.....	.....	11	.....
July	2	.....	.....	1	3	.....	1	.....	.....	2	.....
August	7	1	1	.....	9	.....	.....	1	.....	8	.....
September	2	2	.....	.....	4	.....	.....	.....	.....	4	.....
October	3	.....	1	.....	4	.....	.....	.....	1	3	.....
November	4	1	.....	.....	5	.....	.....	.....	.....	5	.....
December	5	1	.....	2	8	.....	.....	.....	.....	8	.....
Totals 1899	39	25	10	5	79	1	2	1	2	73	79
Totals 1898	80	35	19	14	48	1	.....	.....	5	142	148

TABLE G.

Showing the Birth-place of Persons Committed to the Almshouse as Vagrants, etc., by Magistrates and Criminal Court, from January 1, 1899, to December 31, 1899; also a Comparison with 1898.

NATIVES.	1899.	1898.	FOREIGN.	1899.	1898.
Baltimore	23	47	Ireland	15	21
Maryland	4	32	Germany	16	12
Pennsylvania	3	9	Poland	.....	3
Ohio	.....	4	Russia	2	2
Delaware	.....	2	Scotland	2	2
Virginia	.....	3	Austria	.....	1
Missouri	.....	1	Africa	.....	1
New York	4	1	England	1	.....
Massachusetts	.....	1		36	42
Arkansas	.....	1			
Wisconsin	.....	1			
New Jersey	.....	1			
Illinois	1	1			
District of Columbia	2	.....			
Louisiana	.....	.....			
Alabama	.....	.....			
South Carolina	.....	.....			
Unknown	.....	2			
Florida	1	.....			
Tennessee	2	.....			
North Carolina	1	.....			
Virginia	2	.....	Natives	43	106
	43	106		79	148

TABLE H.

Showing Habits of Persons Admitted to the Almshouse from Jan. 1, 1899, to Dec. 31, 1899; also a Comparison with 1898.

	1899.	1898.
Intemperate adults	1,027	956
Temperate adults	427	572
Children of intemperate parents	1	1
Children of temperate parents	22	21
Unknown	6	11
	1,483	1,561

TABLE I.

Showing Number of Births and Deaths in each Month, and the Sex and Color, from January 1, 1899, to December 31, 1899; also a Comparison with 1898.

1899.	Births.					Deaths.				Deaths Child'n		
	White Males.	White Females.	Colored Males.	Col'd Females.	Totals.	White Males.	White Females.	Colored Males.	Col'd Females.	White.	Colored.	Totals.
January	.....	.....	.....	.....	.....	10	9	5	2	.....	.....	26
February	.....	1	.....	.....	1	14	7	4	2	.....	.....	27
March	.....	.....	.....	.....	.....	9	1	6	4	1	.....	21
April	.....	.....	.....	.....	.....	11	5	5	6	.....	1	28
May	.....	.....	.....	.....	.....	11	1	8	5	.....	.....	25
June	.....	.....	.....	.....	.....	6	5	4	7	.....	.....	22
July	.....	.....	.....	1	1	6	4	7	3	.....	.....	20
August	.....	.....	.....	.....	.....	7	4	8	2	.....	.....	21
September	.....	.....	.....	1	1	5	7	.....	2	.....	.....	14
October	.....	1	.....	.....	1	10	5	8	3	.....	.....	26
November	.....	1	.....	.....	1	7	6	5	4	.....	.....	22
December	.....	.....	.....	.....	.....	6	6	9	1	.....	.....	22
Totals 1899	....	3	.....	2	5	102	60	69	41	1	1	274
Totals 1898	5	.....	1	2	8	85	60	59	38	5	2	249

GARDENER'S REPORT.

Showing Products of Farm and Expenses.

Farm Credit.

115	bus.	Carrots,	at 50	cts.	per	bus	$ 57	50
1,058	doz.	Corn,	" 12	"	"	doz	126	96
2,569	bchs.	Onions,	" 1½	"	"	bch	38	54
347½	bus.	Turnips,	" 15	"	"	bus	52	13
520	bchs.	Leeks,	" 2	"	"	bch	10	40
2,310	"	Celery,	" 4	"	"	"	92	40
10,220	hds.	Cabbage,	" 6	"	"	hd.	613	20
2,331	"	"	" 2	"	"	"	46	62
15,505	lbs.	Pork,	" 6	"	"	lb.	930	30
114½	bus.	Parsnips,	" 35	"	"	bus	40	80
13	"	Sprouts,	" 15	"	"	"	1	95
1,528	bchs.	Radishes,	" 1½	"	"	bch	22	92
1,155	hds.	Lettuce,	" 2	"	"	hd.	23	10
679	bchs.	Beets,	" 4	"	"	bch	27	16
43½	bus.	Peas,	" 75	"	"	bus	32	63
162	doz.	Squash,	" 10	"	"	doz	16	20
561	bus.	Tomatoes	" 30	"	"	bus	168	30
20	"	Lima Beans,	" 50	"	"	"	10	00
98	"	String Beans,	" 50	"	"	"	49	00
713	bchs.	Salsify,	" 6	"	"	bch	42	78
109	qts.	Raspberries,	" 10	"	"	qt.	10	91
17	"	Blackberries,	" 10	"	"	"	1	70
416	doz.	Eggs,	" 16½	"	"	doz	67	38
150	bus.	Potatoes,	" 50	"	"	bus	75	00
35,025	gals.	Milk,	" 15	"	"	gal	5,253	75
10	tons	Hay,	" $12		"	ton	120	00
							$7,930	90

Farm Debit.

Salaries	$ 742	00
Exchange of cows	285	00
Feed and bedding for stock	2,671	75
Seed and implements, shoeing, etc.	161	13
General repairs and sundries	172	07
	$4,031	95
Balance	3,898	95
	$7,930	90

REPORT

—OF THE—

Medical and Surgical Department.

MEDICAL AND SURGICAL DEPARTMENT.

Chief Resident Physician:

JOSEPH W. HOLLAND, M.D

First Assistant Resident Physicians:

H. G. SIMPERS, M.D. SAMUEL EDWARDS, M.D.

Second Assistant Resident Physicians:

N. G. KEIRLE, JR., M.D. P. L. BOYER, M.D.

VISITING STAFF.

Physicians:

THOMAS S. LATIMER, M.D. H. H. HAYDEN, M.D.
WILLIAM F. LOCKWOOD, M.D. JOSEPH T. SMITH, M.D.
C. HAMPSON JONES, M.D. *WILLIAM B. CANFIELD, M.D.
CHARLES F. BLAKE, M.D. JOSEPH E. GICHNER, M.D.

Surgeons:

CHAS. F. BEVIN, M.D. W. S. GARDNER, M.D.
A. FRIEDENWALD, M.D. SYLVAN H. LIKES, M.D.
J. W. CHAMBERS, M.D. JOHN G. JAY, M.D.
WM. F. SMITH, M.D. I. R. TRIMBLE, M.D.
S. McCLEARY, M.D. FRANK MARTIN, M.D.
ST. CLAIR SPRUILL, M.D.

Neurologists:

GEO. J. PRESTON, M.D. T. W. CLARKE, M.D.

Gynecologist:

THOMAS OPIE, M.D.

Eye and Ear Diseases:

HARRY FRIEDENWALD, M.D. A. D. McCONACHIE, M.D.
ED. J. BERNSTEIN, M.D.

Throat and Nose Diseases:

M. R. WALTER, M.D. FRANK D. SANGER, M.D.

Obstetrician:

L. E. NEALE, M.D.

Pathologist:

EUGENE OPIE, M.D.

Diseases of Stomach.

JULIUS FRIEDENWALD, M.D.

*Deceased.

REPORT OF RESIDENT PHYSICIAN.

BAYVIEW HOSPITAL, December 31, 1899.

To the President and Board of Trustees of the Poor:

I have the honor to present herewith my annual report of the Medical and Surgical Departments of Bayview Hospital for the year ending December 31, 1899.

Being unfamiliar with the work done during the first four months of the year, and not knowing the method governing the statistical report used during former years, I have found the task of conforming this annual report to those preceding a difficult one. I have endeavored to so compile the appended statistics as to afford as practical a comparison as possible.

In the absence of Dr. Eugene Opie, whose continued illness I regret to report, the autopsy work has been performed by members of the hospital staff, a privilege they appreciate and have thoroughly taken advantage of.

The improvement of the work of the Nursing Department during the year has been very gratifying. Though the present method of obtaining such service is in many respects unsatisfactory, it seems, under the circumstances, the best offered.

There have been treated forty-seven cases of phthisis in females during the year. Our present female phthisical wards being located in the same building and in close proximity to other hospital wards, the isolation which is imperative in such cases is impracticable. Under the present conditions many persons, both sick and well, are constantly exposed to the tubercular infection. The demand for proper isolation of female consumptives, I am sure, is patent to you all.

There have occurred during the year five cases of facial erysipelas. By reason of lack of proper facilities for the isolation of these cases, it has been necessary to treat them in a room situated in the Asylum, adjacent to living rooms. I feel sure means for better isolation of infectious patients will shortly be supplied.

The health of what may be termed the resident population has been good. One case of typhoid fever originated in the house, and several cases of consumption.

I have endeavored to include in the aggregate statistical report only the actual number of patients treated, not including many who have received treatment at irregular intervals through the Dispensary. It seemed expedient to distinguish those cases treated in Dispensary from those treated in Hospital in estimating the total number.

The total number of patients under treatment during the year was 2,574. Many suffered more than one disease; the number of diseases, 3,928, is in excess of number of patients treated. Of the number of diseases treated, 1,408 were cured, 1,159 improved, and 865 unimproved.

The number of deaths was	231
Number of diseases remaining under treatment Dec 31, 1899	847
" " patients " " " " 31, 1899	565
Actual number of patients under treatment in Hospital Dec. 31, 1899	265
Number receiving treatment in Dispensary Dec. 31, 1899	300
Actual number of patients treated in Hospital during year	1,374
Number receiving treatment in Dispensary	1,200

There have been treated six cases of obstetrics; four confinements at term, one case discharged before confinement, one remaining in hospital.

I deemed it would prove of interest to report the surgical operations in a separate table.

Total number of surgical operations 106, 91 of which resulted in a cure of the disease for which operation was performed, 13 cases were improved, and 2 unimproved by operation.

With the equipment so generously supplied by the Board of Trustees, and with our corps of able visiting surgeons, we feel that the means are at hand to do successful operative surgery, and are encouraged to hope that this line of work will increase in the future.

I take pleasure in commending the efficient work of the staff of assistant resident physicians, and the able co-operation of our head nurse.

I must also express appreciation for the courteous co-operation of the Superintendent, and the interest manifested by the Board of Trustees.

Respectfully submitted,

J. W. Holland.

REPORT OF RESIDENT PHYSICIAN.

MEDICAL AND SURGICAL STATISTICS.

MEDICAL DISEASES.

Diseases.	Treated.	Discharged.				Remaining December 31, 1899.
		Cured.	Improved.	Unimproved.	Died.	
General Diseases.						
A.						
Anemia, secondary	6	1	5			
Erysipelas, facial	5	5				
Fevers						
Malarial { quotidian	2	2				
Malarial { tertian	49	48	1			
Malarial { anestivo antuminal	58	52	4		1	1
Fever, typhoid	5	5				
Obesity	2		1	1		
B.						
Malarial cachexia	10	5	5			
Alcoholism	151	134	14			3
Delerium tremens	3	2				1
Malingering	10	1		9		
Opium habit	5		1	4		
Chronic lead poisoning	1	1				
Rheumatism, acute articular	19	13	4			2
" chronic	211		123	80		8
" sub-acute	18	8	8			2
" intercostal	7	6	1			
" gonorrheal	4	1	3			
" muscular	40	21	9	10		
Senility	69			31	10	28
General Tuberculosis	5				5	

MEDICAL DISEASES—Continued.

Diseases.	Treated.	Discharged.				Remaining December 31, 1899.
		Cured.	Improved.	Unimproved.	Died.	
Diseases of the Circulatory System.						
Nævus of lips	1			1		
Aneurism, aortic	2		1			1
" abdominal	1			1		
" sub-clavian	1		1			
Apoplexy	18	5	2	3	8	
Arterio sclerosis	15			15		
Heart, aortic stenosis	36		22	12		2
" " regurg	25		14	7	3	1
" mitral stenosis	2		2			
" " regurg	77		65	8		4
" dilatation of	7		1	2	4	
Pericarditis, acute	1				1	
" chronic	1			1		
" ulcerative	1			1		
Endocarditis, acute	3	2			1	
Phlebitis-femoral	2	1		1		
Diseases of the Respiratory System.						
Asthma, bronchial	19	4	13	2		
" renal	3	1		2		
Bronchitis, acute	73	69	3			1
" sub-acute	10	6	4			
" chronic	159	55	42	55		7
Coryza, acute	60	60				
Emphysema	38		20	18		
Empyema	4		3	1		
Pulm. hemorrhage	6	6				
Influenza	12	10				2
Laryngitis, acute	4	4				
" sub-acute	4	2	2			
" chronic	1	1				
" " syphilitic	1		1			
" tubercular	3			3		
Nasal polypi	1	1				
Oedema of lung	23	2		20	1	
Purulent infiltration of lung	1			1		
Pleurisy, acute	15	14			1	

MEDICAL DISEASES—Continued.

Diseases.	Treated.	Discharged.				Remaining December 31, 1899.
		Cured.	Improved.	Unimproved.	Died.	
Pleurisy, chronic	4		2	2		
" tubercular	1			2		
Pneumonia, broncho	19	3			15	1
" lobar	8	2			6	
" bi-lateral	3				3	
" hypostatic	4	1			3	
Phthisis, pulmonatis	159		30	30	68	31
" florida	6				6	
Rhinitis, atrophic	1		1			
" hypertrophic	1	1				
" syphilitic	3		3			
Diseases of the Digestive System.						
Amyloid liver	3			3		
Atonic dispepsia	2		2			
Calculi hepatic	2			2		
Cholera morbus	3	3				
Cirrhosis of liver	10		5	1	3	1
Carcinoma of "	2			1	1	
" of pancreas	1			1		
Chronic constipation	202	51	150			1
Diarrhœa, acute	27	27				
" chronic	37	11	21		2	3
" tubercular	8		5	3		
Dysentery, acute	8	7	1			
" chronic	1			1		
Enteralgia	2	1		1		
Entero colitis	7	6	1			
Intestinal atony	1		2			
" obstruction	1	1				
Fecal impaction	86	86				
Gastritis, acute	12	10	2			
" sub-acute	4	2	2			
" chronic	40	5	30	4		1
Gastro-enteritis	6	5		1		
Stomach, dilated	15		5	10		
Jaundice, catarrhal	2	1	1			
Peritonitis, acute	1				1	
" tubercular	1		1			

MEDICAL DISEASES—Continued.

Diseases.	Treated.	Discharged.				Remaining December 31, 1899.
		Cured.	Improved.	Unimproved.	Died.	
Stomatitis, apthous	4	4				
" mercurial	4	4				
" ulcerative	1		1			
Taenia, saginata	1		1			
Carcinoma of stomach	2			1	1	
Ulcer of stomach	1		1			
Inanition	10	6	2		2	
Diseases of the Fauces and Palate.						
Catarrh, post nasal	1		1			
Pharyngitis, acute	44	44				
" chronic	6	2	2	2		
Tonsilitis, simple	8	8				
" fallicular	7	7				
" chronic	4	2	2			
Diseases of the Cutaneous System.						
Dermatitis, acute	8	6	2			
" chronic	2		2			
" venenata	2	2				
Eczema, acute	1	1				
" chronic	11	4	6			1
Herpes	1	1				
" zoster	1	1				
Psoriasis	2		2			
Scabies	1		1			
Tinea, sycosis	1		1			
" tonsurans	1	1				
" versicolor	1		1			
Urticaria	1	1				
Acne-rosacea	2		2			
Pityriasis-circinata	1		1			
Lichen ruber	1					1
Pediculosis	6	6				
Diseases of the Urinary System.						
Cystitis, acute	4	4				
" chronic	13		10	3		

MEDICAL DISEASES—Continued.

Diseases.	Treated.	Discharged.				Remaining December 31, 1899.
		Cured.	Improved	Unimproved.	Died.	
Calculi, vesical	1				1	
Diabetes, insipidus	2		2			
" mellitus	4		3			1
Nepritis, acute	6	1	2		3	
" chronic interstitial	371		120	189	49	13
" paranehymatous	9		5	1	2	1
Amyloid, kidney	3			2	1	
Pyelitis	1		1			
Pyelo, nephritis	10		2	5	3	
Uraemia	6	2		4		
Uraemic convulsions	1			1		
" coma	4			4		
Oxaluria	3	2	1			
Diseases of the Ear.						
Cerumen, impacted	2	2				
Otitis, externa	2	2				
Chronic adhesive aural catarrh	3		2	1		
Otitis, media purulent	1	1				
" " acute	1	1				
" " chronic	2		2			
Diseases of the Eye.						
Lachrymal Abscess	1	1				
Blepharitis marginalis	2		2			
Cataract	2	1		1		
Corneal ulcer	3	2				1
Conjunctivitis, simple	3	2	1			
" purulent	1	1				
Ectropion	1			1		
Glaucoma	1		1			
Iritis	4	3				1
Keratitis	2	1				1
Oculo-motor paralysis	1			1		
Optic atrophy	7			7		
Pan-opthalmitis	1			1		
Pterygium	3			3		
Retinitis	2			2		
Sub-conjunc. ecchymosis	2	1				1
Ophthalmia noenatorum	2	1		1		

MEDICAL DISEASES—Continued.

Diseases.	Treated.	Discharged.				Remaining December 31, 1899.
		Cured.	Improved.	Unimproved.	Died.	
Diseases of the Nervous System.						
Aphasia	3	1		2		
Cerebral concussion	1	1				
" embolism	1			1		
" hemorrhage	15		1	1	13	
" meningitis	1			1		
" tumor	3		1	2		
Chorea	4			3		1
Catalepsy	1			1		
Dementia, senile	37			27		10
" presenile	4			4		
Epilepsy, Jacksonian	2					2
"	62		20	40		12
Gastralgia	20	12	7	1		
Hemiplegia	43		12	16		15
Hypochondriasis	3		2	1		
Hysteria	4	1	1	2		
Idiocy	10			4		6
Lumbago	62	39	23			
Melancholia	12		4	6		2
Meningitis, cerebro-spinal	1			1		
Neurelgia, facial	10	9	1			
" intercostal	6	6				
Neurasthenia	12	2	5	4		1
Myelitis-transverse	11			8		3
Neuritis, simple	5	1	4			
" multiple	5	1	2	1		1
" lead	1	1				
" traumatic	5	2	2			1
Paralysis, facial	1			1		
" bulbar	1		1			
" agitans	4			4		
" crico-arytenoid	1			1		
" infantile	7			6		1
Paraplegia, spastic	4		1	2		1
Progressive muscular atrophy	2					2
Potts' disease	2			2		
Sciatica	6	3	3			
Sclerosis, lateral	1			1		

MEDICAL DISEASES—Concluded.

Diseases.	Treated.	Discharged.				Remaining December 31, 1899.
		Cured.	Improved.	Unimproved.	Died.	
Sclerosis, multiple	5		1	1		2
" dorsal	15		1	11		3
Torticollis	1	1				
Hydrocephalus	1			1		
Imbecility	27			17		10
Coccygodynia	2	2				
Pseudo-facial chorea	1			1		
Spinal hemorrhage	1		1			
Paraplegia	16			8		8
Diseases of Women.						
Amenorrhea	1			1		
Dysmenorrhea	4		3			1
Menorrhagia	2		2			
Metrorrhagia	2	1	1			
Cystocele	1	1				
Cervix, laceration of	2			2		
Endocervicitis	3	2	1			
Endometritis	2	1	1			
Hypertrophy of labia	1			1		
Adino-carcinoma of labia	1					1
Mastitis	1	1				
Pruritus vulvae	2		2			
Puerperal fever	2	2				
Rectocele	1			1		
Recto-vaginal fistula	2	1		1		
Salpingitis	2	2				
Uterus, anteversion of	1	1				
" retroflexion of	1			1		
" retroversion of	2			2		
" fibroid of	2	1		1		
" procedentia of	3			3		
Vaginitis, simple	3	3				
" specific	3		3			
Carcinoma of cervix	4				3	1
Ovaritis	3	1	1			1
Total medical diseases	3,119	998	927	776	221	197

SURGICAL DISEASES.

Diseases.	Treated.	Discharged.				Remaining December 31, 1899.
		Cured.	Improved.	Unimproved.	Died.	
Appendicitis	2		2			
Burns, arm	1	1				
" hand	1					1
" leg	2	1	1			
" body	1	1				
" buttocks	1					1
Dislocation, clavicle	1	1				
" jaw	1	1				
" finger	1			1		
" tarsus	1	1				
" shoulder	3	3				
" elbow	1			1		
Fracture, femur (neck)	12		10			2
" " (shaft)	2	1				1
" patella—single	1	1				
" " double	1		1			
" potts'	2	1	1			
" clavicle	1	1				
" finger	1	1				
" humerus	2	2				
" lower jaw	6	5				1
" radius-ulna	2	2				
" scapula	1	1				
" ribs	4	4				
" colles	3	2	1			
" vertebrae	1	1				
Frost bite	19	18	1			
Oyster hand	4	4				
Sprains, ankle	5	4	1			
" wrist	3	3				
" knee	3		3			
Wounds, contused	10	8	2			
" incised	1	1				
" lacerated	19	18	1			
" punctured	5	5				
" gun-shot of thorax	1			1		
" " hand	1		1			
Venereal Diseases.						
Adenitis Ing	14	11	1			2
Balanitis	3	3				

SURGICAL DISEASES—Continued.

Diseases.	Treated.	Discharged.				Remaining December 31, 1899.
		Cured.	Improved.	Unimproved.	Died.	
Chancroid, simple	19	13	4			2
" phagedenic	2	1	1			
Epididymitis	2	2				
Gonorrhea	22	8	13			1
Architis	1			1		
Phimosis	9	5		3		1
Para-phimosis	2	2				
Stricture, urethral	4	3	1			
Syphilis, congenital	1		1			
" primary	10		10			
" secondary	36		28			8
" tertiary	102		68	26		8
Warts, venereal	2	2				
Unclassified.						
Abscess, arm	1	1				
" axilla	1	1				
" scrotum	1	1				
" foot	2	2				
" abdominal wall	3	2				1
" hand	2	2				
" ischio-rectal	3	3				
" neck	2	2				
" knee	2	2				
" leg	2	1				1
" peri-rectal	2	1		1		
" pelvis	1			1		
Anchylosis, hip	2			2		
" knee	1			1		
" elbow	1		1			
" ankle	1		1			
Adenitis, cervical	3	2	1			
Arthritis, traumatic	1		1			
" syphilitic	5		4	1		
" tuburcular	2		1			1
" chronic, deformans	1					1
Bursitis	2	2				
Carcinoma, face	4			3	1	
" prostate	1				1	
" ilium	1					1
" lung	1			1		

SURGICAL DISEASES—Continued.

Diseases.	Treated.	Discharged.				Remaining December 31, 1899.
		Cured.	Improved.	Unimproved.	Died.	
Carcinoma, mamma	4			2	1	1
" tongue	2				2	
Osteo-sarcoma of ilium	1					1
Caries, ilium	1		1			
" sternum	1					1
" sacrum	1	1				
" cranial bones	1	1				
Carbuncle	2	2				
Cyst, sebaceous	1	1				
Cellulitis, hand	12	9	1			2
" arm	5	5				
" leg	2	2				
" foot	8	7	1			
Coxalgia	3	2	1			
Epithelioma of face	3	1		1	1	
Fistula in ano	3	2		1		
Furunculosis	6	6				
Gangrene, foot	18	18				
" finger	1	1				
" senile	3				3	
Gumma of palate	2		1	1		
" of meningis	1					1
Hemorrhoids, external	8	4	3	1		
" internal	4	3	1			
Hernia, inguinal	22	6		14		2
" umbilical	2			2		
" ventral	6	1		5		
Hydrocele	2			2		
Talipes, equino-varus	2		1	1		
Perineo, urethral fistula	1		1			
Spondylitis	1			1		
Ruptured urethra	1				1	
Necrosis, lower jaw	3	1		1		1
" nasal bones	1		1			
" femur	1					1
" tibia	2		1			1
Necrosis, coccyx	1	1				
Osteitis of finger	1	1				
Peri-Osteitis of tibia	1	1				
" " finger	1	1				
Paronychia	1	1				

SURGICAL DISEASES—Concluded.

Diseases.	Treated.	Discharged.				Remaining December 31, 1898.
		Cured.	Improved.	Unimproved.	Died.	
Prostatic hypertrophy	12	1		7		4
Acute prostatitis	1		1			
Prolapsus of rectum	3		2			1
Stricture of rectum	3	1		1		1
Synovitis, acute	6	4	2			
Tubercular glands	1	1				
Ulcer, foot	9	6	1			2
" leg	103	50	38			15
" nose	1	1				
" rectum	3	3				
" body	2	2				
" syphilitic	4	4				
Adenoma	1			1		
Vesical fistula, super pubic	1			1		
Vesico rectal fistula	1			1		
Synovitis syphilitic	1		1			
Obstetrics.						
Confinement at term	4	4				
Discharged before confinement	1			1		
Remaining in hospital	1					1

SURGICAL OPERATIONS.

Diseases.	Treated.	Discharged.				Remaining December 31, 1899.
		Cured.	Improved.	Unimproved.	Died.	
General Surgery.						
Excision of glands, inguinal	8	8				
Amputation, thigh	1	1				
" leg	1	1				
" foot	1	1				
" toes	7	7				
" fingers	3	3				
Urethrotomy, internal	1	1				
" external	3	2	1			
Cystotomy, supral-pubic	2	1		1		
" perineal	1	1				
Circumcision	10	10				
Incision, abs. of neck	2	2				
" hand	2	2				
" groin	1	1				
" abdominal wall	2	2				
" foot	2	2				
" thigh	2	2				
" ischio-rectal	2	2				
" peri-rectal	1	1				
" axilla	2	2				
" face	2	2				
" lachrymal-sac	1	1				
" mammrary gl'ds	1		1			
" arm	2	2				
Herniotomy, inguinal	4	4				
" ventral	1	1				
Skin grafting	1		1			
Dilatation of stricture of rectum	1	1				
Excision of hemorrhoids	4	4				
Cauterization "	2	2				
Amputation of mamma	1	1				
Excision of neoplasm of tongue	1			1		
Prostatectomy	1	1				
Lithotomy	1	1				
Excision of carinus bone	4	2	2			
Cellulitis of hand	3	3				
" foot	2	2				

SURGICAL OPERATIONS—Continued.

Diseases.	Treated.	Discharged.				Remaining December 31, 1899.
		Cured.	Improved.	Unimproved.	Died.	
Unclassified.						
Iridectomy	2	2				
Tonsilotomy	1	1				
Capsnlotomy	1		1			
Phlabotomy	1		1			
Paracentesis of thorax	4	2	2			
Thoracotomy	1	1				
Post-nasal curetting	2	2				
Gynaecological.						
Salpingo-oophorectomy	2	2				
Divulsion	2		2			
Curetting utherus	2		2			
Suspensio uteri	1	1				
Myomectomy	1	1				
Total surgical diseases	809	410	232	89	10	68

Recapitulation.

Total ingress of diseases		3,928
Total egress of diseases		3,081
Remaining December 31, 1899		847
Total ingress of patients		2,574
" egress "		2,009
Remaining under treatment December 31, 1899		565
Receiving treatment in hospital	265	
" dispensary	300	
		565
Total number of patients treated in hospital		1,374
" " dispensary		1,200
		2,574

REPORT

—OF THE—

INSANE DEPARTMENT.

INSANE DEPARTMENT.

Chief Resident Physician:

R. A. URQUHART, M.D.

First Assistant Resident Physician:

HARRY A. COTTON, M.D.

Second Assistant Resident Physician:

CHESTER L. MAGEE, M.D.

VISITING STAFF.

Alienists:

HENRY J. BERKLEY, M.D.
E. M. SINGEWALD, M.D.
STEWART PATON, M.D.

Surgeon:

EUGENE McE. VAN NESS, M.D.

Gynecologist:

J. WHITRIDGE WILLIAMS, M.D.

Opthalmologist:

JAMES J. MILLS, M.D.

REPORT OF THE RESIDENT PHYSICIAN.

BAYVIEW ASYLUM, December 31st, 1899.

To the President and Board of Trustees of the Poor:

It gives me pleasure to submit for your consideration, in accordance with the regulations of the institution, the following medical report for the year ending December 31st, 1899:

THERE REMAINED UNDER CARE—

	White Males.	*White Females.*	*Colored Males.*	*Colored Females.*
At the close of last year, Dec. 31, '98	34	190	50	85
Admitted since	43	29	28	18
Whole number treated	77	219	78	103
Discharged and died	34	29	22	25
Remaining December 31, 1899	43	190	56	78

Results in those discharged were as follows—recovered, 18; improved, 22; unimproved, 27; died, 43.

At the close of this report will be found more complete statistics, with reference to patients admitted during the year. The tables show nativity of patients, time of residence here, monthly admissions, occupation, mental condition and causes of death.

Eight escapes have occurred during the year—in each instance from men employed on the farm, or during out-of-door recreation. These instances have occurred not from lack of diligence on the part of attendants, but rather from their insufficient number. An average of twenty patients to each attendant is manifestly disproportionate. I would earnestly recommend an increase of the nursing force.

I regret very much to report one serious accident—a death by suicide—the circumstances being in no sense traceable to lack of interest or careful attention; indeed, I might add

that in a community of so many homicidal and suicidal individuals and feeble dements liable to falls at any time, so great an immunity from accidents is complimentary to the diligence and faithfulness of officers and attendents.

As you well know the means at hand do not allow of many progressive changes, still our patients have at all times been made fairly comfortable.

The diet is substantial and nourishing, and the clothing, while plain and inexpensive, is generally neat and comfortable.

The physical health of the patients has been unusually good. No serious epidemic has prevailed, and, indeed, there have been few acute illnesses of any nature.

I am especially glad to report so few cases of tuberculosis either on admisson or developing later, there being at present but two in the institution.

It has been my aim in every instance of this disease, having no adequate means of isolation, if the mental condition would allow, to prevail upon the friends to remove the case from the institution—both to provide for the patient a better chance of recuperation and to relieve our crowded wards of a very dangerous element. Unless early relief is secured from some quarter, our wards are in danger of becoming crowded beyond the limits of heathfulness.

Reference to the appended table will show the small margin for admission for the coming year:

	Capacity.	*Population.*
Ward I	65	59
" II	72	73
" III	72	58
" IV	86	78
" V	50	43
" VI	50	56

We have here, as you are probably well aware, numerous individuals whose periods of active insanity has long since passed cases more of burdensome old age, troublesome only in the sense of their helplessness.

I would suggest the erection of a smaller building, where this class could be segregated, providing more room in our present wards and relieving our more hopeful cases of the depressing influence of hopeless incurables,

Fully recognizing the evil of idleness to the insane, we have endeavored to keep employed all those patients capable of work of any nature. In this we are handicapped by the absence of industrial shops; still much has been accomplished by the men in farm and garden work and the constant necessary repairs to the buildings, and by the women in the laundry, the kitchen and in sewing; 2,706 new garments have been made, 25,000 old ones repaired, 63 pillow shams and 25 table covers embroidered.

In the way of amusement as much has been accomplished as is practicable with the surroundings. Out-door recreation has been insisted upon; dancing and games constituting the chief in-door diversions.

Mechanical restraint has been avoided except in extreme cases. To abolish it entirely is impossible with the present limited number of attendants.

Your liberality to the laboratory during the year has very greatly increased its usefulness, and while the equipment is still by no means elaborate, we are prepared to make all practical pathological, bacteriological and blood examinations, work which I think has not been systematically attempted here before, but is certainly necessary for accurate knowledge in the diagnosis of mental diseases.

The rain baths finished in the early spring has been a source of comfort to the patients and cleanliness to the institution.

I desire to call to your attention a matter I take to be of serious moment—the provision of some adequate means of fire escape from the women's building. The likelihood of such a catastrophe is always present, and without available arrangements I would be fearful of the results.

In closing this report I desire to express my sincere thanks to the members of the visiting staff, and especially to Dr.

Henry J. Berkley, whose experience and active interest in each detail has been of inestimable benefit to the institution for the past several years.

To my assistants, Drs. Harry A. Cotton and Chester L. Magee, I wish to express my appreciation of their cheerful co-operation and assistance, and to say they have contributed largely to whatever success has been attained in the management of the institution.

I am under deep obligations to our Superintendent, Mr. L. F. Zinkhan, for much helpful advice always cheerfully accorded, and for many acts of personal kindness.

With few exceptions the attendants have been worthy of commendation for their diligence and faithfulness.

In conclusion I desire to express to each member of the Board my appreciation of the uniformly courteous manner in which I have been treated.

Very respectfully,

RICHARD A. URQUHART.

BAY VIEW ASYLUM—INSANE STATISTICS.

TABLE A.

General Statement for the Year Ending December 31, 1899.

	White, Male.	White, Female.	Colored, Male.	Colored, Female.	Totals.
Number of patients in Hospital Dec. 31, 1898	34	190	50	85	359
" " admitted from Baltimore	40	21	25	14	100
" " " by birth	.....	1	.....	1	2
" " transferred from Almshouse	3	7	3	3	16
Total number under treatment	77	219	78	103	477
Number of patients discharged	20	16	2	14	52
" " transferred to Almshouse	4	1	1	1	7
" " escaped	4	.....	4	.....	8
" " died	6	12	15	10	43
Total egress during the year	34	29	22	25	110
Remaining in Hospital December 31, 1899	43	190	56	78	367
In Insane Hospital twice during the year	3	2	.....	2	7

TABLE B.

Showing Time of Residence of Those Discharged Otherwise Than by Death.

	White, Male.	White, Female.	Colored, Male.	Colored, Female.	Totals.
One month or less	5	4	2	3	14
Between 1 and 2 months	7	2	.....	1	10
" 3 " 6 "	10	7	2	3	22
" 6 " 12 "	3	2	3	6	14
" 1 " 2 years	2	1	.....	.....	3
" 2 " 5 "	.....	.....	.....	2	2
" 6 " 8 "	.....	.....	.....	.....	.....
" 8 " 10 "	.....	.....	.....	.....	.....
" 10 " 12 "	.....	.....	.....	.....	.....
" 12 " 15 "	1	1	.....	.....	2
Totals	28	17	7	15	67

TABLE C.

Showing Monthly Admissions, Discharges, Deaths and Number of Patients.

	Admitted.	Discharged.	Died.	No. of Patients at end of each month.
January	4	5	2	356
February	13	5	1	363
March	9	3	3	366
April	9	6	2	367
May	7	4	2	368
June	12	4	5	371
July	16	9	5	373
August	12	3	3	379
September	8	4	3	380
October	12	11	7	374
November	8	9	6	367
December	8	4	4	367
	118	67	43	

Average number of patients during the year..... 369-10
Highest " " October 14th, 1899 383
Lowest " " February 1st, 1899 355

TABLE D.

Showing Nativity of Patients Admitted during the Year.

Baltimore	51	Canada	1
Maryland	23	France	1
Virginia	3	Germany	13
Pennsylvania	7	Greece	1
New York	1	Italy	1
Louisiana	1	Ireland	4
Ohio	1	Russia	3
Indiana	1	Scotland	1
Washington, D. C	1	Unknown	1
Austria	1		
Bohemia	2	Total	118

TABLE E.

Showing Occupation of Those Admitted During the Year.

Artist	1	Housekeeper	2
Boilermaker	1	Huckster	2
Brass finisher	1	Laborer	35
Boxmaker	1	Master of vessel	1
Baker	1	Machinist	1
Cook	1	Nurse	2
Coachman	1	Newsboy	1
Chair varnisher	1	None	6
Currier	1	Painter	1
Domestic	28	Shoemaker	3
Driver	1	Sailor	1
Eating-house keeper	1	Seamstress	1
Engineer	2	Saloon-keeper	1
Fireman	1	Tailor	2
Fence builder	1	Tailoress	1
Farmer	1	Terra-cotta worker	1
Grocer	1	Waiter	1
Housewife	11		
Total	118		

TABLE F.

Showing Mental Condition of those Admitted During the Year.

Mania-a-potu	1	Dementia, alcoholic	1
Mania, acute	1	" organic	1
" sub-acute	2	" epileptic	1
" senile	1	" syphilitic	2
" pre-senile	2	Acute confusional insanity	2
" post-febrile	1	Chronic delusional "	2
" post-epileptic	1	Acute alcoholic "	8
" recurrent	2	Chronic " "	9
Melancholia, attonita	1	Epileptic insanity	7
" chronic	2	Menopause "	2
" puerperal	1	Adolescent "	1
" simple	1	General paresis	10
Dementia, acute (post-febrile)	2	Imbecility	32
" senile	13	Opium inebriety	1
" pre-senile	3	Unclassified	4
" Traumatic	1		
Total	118		

TABLE G.

Showing Time of Residence of those Who Died during the Year.

	White Males.	White Females.	Colored Males.	Colored Females.	Totals.
One month or less	3	2	2	.....	7
Between 1 and 3 months	1	1	3	.....	5
" 3 " 6 "	1	1	1	.....	3
" 6 " 12 "	1	1	2	4	8
" 1 " 2 years	.....	3	3	3	9
" 2 " 4 "	.....	2	1	2	5
" 4 " 6 "	.....	1	1	.....	2
" 6 " 8 "	.....	.....	2	.....	2
" 10 " 12 "	.....	.....	.....	.....	.....
" 12 " 15 "	.....	1	.....	.....	1
17 years	.....	.....	.....	1	1
Totals	6	12	15	10	43

TABLE H.

Showing Cause of Death of those Who Died during the Year.

Apoplexy	2	Nephritis Chronic Interstitial	4
Capillary Bronchitis	1	Oedema of Lungs	1
Coronary Artery Disease	1	Peritonitis	1
Cerebral Hemorrhage	2	Peritonitis Tubercular	1
Diorrhoea Chronic	1	Pneumonia	7
Exh'tion of Presenile Dementia	1	Phthisis Pulmonalis	6
Exhaustion of Senile "	6	Spinal Tuberculosis	1
" Syphilitic "	1	Suicide	1
" Senile Mania	1	Status Epilepticus	2
" General Paresis	3		
Total			43

TABLE I.

Showing Mental Disorders of those Died During the Year.

Alcoholic insanity acute	2	Epileptic insanity	2
" " chronic	3	General paresis	6
Climacteric insanity	1	Imbecility	3
Dementia, organic	1	Mania, recurrent	1
" pre-senile	3	" senile	1
" senile	13	Melancholia, attonita	1
" syphilitic	2	" chronic	2
" terminal	1	Unclassified	1
Total			43

TABLE J.

Showing Mental Disorders and Condition of those Discharged Otherwise Than by Death.

Mental Disorders.	Recovered.	Improved.	Unimproved.	Totals.
Mania-a-potu	1			1
Mania, acute	1			1
" sub-acute		1		1
" post-febrile	2			2
" recurrent		5		5
" epileptic		3	1	4
Melancholia		1	1	2
" puerperal			1	1
Dementia, acute	2			2
" pre-senile			1	1
" senile			4	4
Acute confusional insanity		1		1
Chronic delusional "			1	1
Acute alcoholic "	9	2		11
Chronic " "		3		3
Epileptic insanity		4		4
General paresis			2	2
Imbecility			16	16
Opium inebriety		2		2
Unclassified	3			3
Totals	18	22	27	67

ANNUAL REPORT

—OF THE—

WATER DEPARTMENT

—TO THE—

Mayor and City Council of Baltimore

—FOR THE—

FISCAL YEAR ENDING DECEMBER 31, 1899.

BALTIMORE:
WM. J. C. DULANY CO., PUBLIC PRINTERS.

1900.

THE WATER BOARD OF BALTIMORE CITY.

DECEMBER 31, 1899.

HON. THOMAS G. HAYES, MAYOR,
Ex-officio President.

SAMUEL T. ADDISON, *President pro-tem.*

GEORGE ELDRIDGE, *Secretary.*

JOHN BURROWS.

GEORGE F. JONES.

LEOPOLD STROUSE.

ALEXANDER H. SCHULZ.

OFFICERS OF THE WATER BOARD.

Water Registrar:

HENRY C. NAILL.

Chief Engineer:

MAJ. WM. L. KENLY.

Clerk to the Water Board:

HOWARD R. BUCKLEY.

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BALTIMORE CITY WATER DEPARTMENT .....

REPORT.

BOARD OF WATER COMMISSIONERS—CITY HALL,

BALTIMORE, January 1, 1900.

To the Honorable the Mayor and City Council of Baltimore:

GENTLEMEN—In compliance with Article 54, Section 3, of the Baltimore City Code, 1893, the Water Board has the honor of submitting for your consideration its report for the past year:

Amount of revenue received during the year and deposited with the City Register, including sales of 1945 stock and interest from Bank on deposits	$1,271,398	34
Balance in hands of City Register, December 31, 1898	157,090	69
	$1,428,489	03
Disbursements paid by warrants approved by Board during the year, including $150,000 surplus paid to Commissioners of Finance	1,284,224	12
Balance in hands of City Register	$144,264	91

(Of which there is to the credit of the Water Board $62,531.75, and to extension of water supply $81,733.16.)

The revenue for the year from water rates and meter rates was	$833,125	44
Less discount on 1899 water rates	15,031	69
The receipts from the same sources in 1898 were	782,960	90
Showing an increase in water rates of	$35,132	85

The total net collections, including water rates, plumbing bills and sundry items for hay and ice from the various reservoirs	$882,162	49
Collections from same source in 1898 amounted to	837,953	02
Showing an increase of	$44,209	47

The Water Registrar's Department has been conducted during the year with ability and success, and the results have been very satisfactory to the Water Board. The receipts exceed those of last year $44,209.47, and those of 1897 $73,470.67; and yet the amount of uncollected water rates for 1899 is $278,858.66, which exceeds the amount of uncollected water rates of 1898 $26,617.69. These figures show a very healthy increase in the amount of assessments for water rates in the last two years, and exhibit the results of a careful, efficient and watchful administration of the Water Registrar's office. And, moreover, the public have been served without friction and with the least possible inconvenience to those doing business with the office.

It is due to the Water Registrar himself to say that the assiduity and devotion displayed by him in the performance of his official duties, and the business methods introduced by him in the conduct of his department are worthy of the most favorable mention.

Upon the completion of the two engines of a pumping capacity of 17,500,000 gallons each, and ultimately of the Mount Royal Pumping Station, the Water Board, on the evening of November 9, 1899, held appropriate dedicatory ceremonies in the station by giving a banquet, and formally turned over the station, with its entire equipment, to His Honor William T. Malster, Mayor of Baltimore City, for use of said city. A large number of scientific men from other cities were in attendance, and pronounced the station the finest in the country.

The Board wishes to express their appreciation of the able and faithful services rendered by Major William L. Kenly, Chief Engineer, in the performance of the manifold duties that devolved upon him as the head of the Engineer's Department, and bear testimony to his deservedly high standing in his profession.

There were 109,832 feet of main laid during the year 1899, varying in sizes from three to forty-eight inches in diameter,

locations of which are given in detail in the report of the Superintendent of the Construction Division.

Operations for the dredging of Lake Roland commenced in April last, and 161,032 cubic yards of material were removed; 8,961 cubic yards of deposit have been removed during the season from Loch Raven dam.

The keeper's lodge and emergency station on the same lot with the West Arlington standpipe have been completed.

Every effort has been made to bring the Meter Division up to a standard, but owing to the fact that so many old meters are in service, it has been impossible to make as good a showing as this division will show in the future. Another drawback, and, in fact, the most important of obstacles, are the old indicators. They are not in any sense a proper measurer to determine the quantity of water used by elevators. Persistent effort should be made to displace all indicators with meters. During the year the department has had applications from property-owners to displace sixty-six indicators which were replaced by meters, and by special order of the Board the Meter Division displaced twenty-seven indicators that were in no condition to properly register the quantity of water consumed, and substituted meters in lieu thereof. The department also condemned fifty-nine old meters that were worn out, and replaced the same with meters as auxiliaries, still holding ownership of the meters.

The Meter Division has collected $25,382.98 in excess of any previous year, and the cost of installing meters has been reduced from $12.53 for the year 1898 to $6.69 for the year 1899. Every meter in service at this time is in a fair condition.

The Water Patrol reports 489 inspections for the year on the water sheds of Lake Roland and Loch Raven. The number of nuisances abated was 322, and improvements in others were accomplished, and the whole show an average abatement of pollution of seventy per cent. The drainage from the town of Towson is in a deplorable condition, the only outlet being

the Towson Run, which is nothing more or less than a small stream fed by a few spring branches. This stream requires constant patroling, as the property-owners thereon are disposed to violate the law prohibiting the pollution of the stream. The only remedy in this case seems to be to divert the discharge of this Run to the overflow of Jones Falls.

The Board desires to express their appreciation to the entire force of the department for their efficient services during their incumbency.

For matter of detail the Board respectfully refers you to the reports of the Chief Engineer and Water Registrar.

Respectfully,

GEORGE ELDRIDGE, *Secretary.*

SAMUEL T. ADDISON, *President pro tem.*
JOHN BURROWS,
GEO. F. JONES,
LEOPOLD STROUSE,
A. H. SCHULZ.

ANNUAL REPORT OF THE WATER REGISTRAR.

OFFICE OF THE WATER REGISTRAR—CITY HALL,
BALTIMORE, MD., January 1, 1900.

To the Honorable the President and Members of the Water Board:

GENTLEMEN—In compliance with the requirements of Article 54, Section 12, of the Baltimore City Code of 1893, I respectfully present to your Honorable Body a report, containing a statement of the number of water takers, the number of cases where the water has been cut off, the number and amount of abatements, the new supplies made, the receipts and expenditures of the Water Board, and also a statement of the sources from which said receipts were derived for the year 1899, as follows:

RECEIPTS FOR THE YEAR.

From water rates for 1896	$ 946 58	
" " " " 1897	5,304 51	
" " " " 1898	193,523 21	
" " " " 1899	426,506 22	
		$626,280 52
From interest on delinquent water rates		5,330 45
" meters and indicators		206,844 92
		$838,455 89
Less discount on 1899 water rates		15,031 69
		$823,424 20
From interest on deposits in bank		4,204 16
" plumbing bills		56,627 98
" meter plumbing bills		11,102 96
" turn offs		1,783 00
" vacancies and turn offs		915 00
" vacancies		238 00
" Gay-street yard		190 07
" Eastern Pumping Station		1 25
" Western " "		51 25
" meter supplies		75 00
" Registrar's Department		22 50
" repairs		15 73
" General Stores—Mechanical Division		15 46

From Lake Clifton	$3 00
" " Montebello	301 32
" " Roland	1,205 56
" Loch Raven	1,128 21
" extension of water supply	91 19
" current expenses	2 50
" the Mayor and City Council, arising from sales of 1945 stock	370,000 00
	$1,271,398 34

The number of water takers was 95,749; the number of cases where the water was cut off by withdrawal of ferrules, 588. Of this number, 147 were returned by the water taker complying with the requirements of the law. The number of abatements made was 4,579, and the aggregate amount of said abatements was $34,266 55. The supplies introduced numbered 3,257. Of this number, 2,185 were new supplies, and 1,072 were new connections arising from the severing of private joint pipes and placing each house on a separate tap direct from the water main.

The amount of uncollected water rates standing on the ledgers at the close of the year was $279,858.36. While the receipts from collections of water rates for this year exceed those of 1898 by $44,209 47, the amount still due exceeds that of 1898 by $26,617.69, and hence, the increase in the collections of 1899 over those of 1898 has not impaired the sources of revenue for the year 1900.

The abatements of this year exceed those of 1898 $8,073.41, which arises largely from the introduction of meters on premises in the city where large quantities of water is used; and in Baltimore County where all takers of city water were required to install meters. The abatement of front footage rates on property where meters have been substituted for such rates, does not, however, affect the revenue, but only changes the method of determining the charge for the water used.

The space in the old ledgers, which had been in use for three years, became exhausted with the close of the work of 1899, and, hence, a new set of ledgers had to be provided. In the arrangement of the new ledgers the city was sub-divided

into four districts, instead of eight, as formerly arranged. The advantage claimed for this change in my last report, since the new method has been put into practical operation, has been clearly demonstrated. The ledger clerks, under the consolidated arrangement, can perform the work of adjusting the bills for payment, and entering up the transaction in each case in the cash-book with much greater facility, and, hence, the public is better served than hitherto, and, moreover, the business of this branch is altogether more promptly, safely and satisfactorily conducted. But for this change, the reduction of the number of ledger clerks, which was made at the beginning of the current year, would have been inadmissible.

I feel it incumbent upon me to state that the employees in the different branches of this office have performed their duties with fidelity and efficiency, and have met the heavy demands made upon them with commendable patience and thoroughness.

The following statements exhibit in detail the financial transactions of the Water Department for the year 1899:

Statement A—Water Registrar's cash account.
" B— " " disbursement account.
" C—Trial balance, general ledger.
" D—Balance sheet.
" E—Gross receipts.
" F—Total disbursements.
" G—Comparative table of receipts for the years 1897, 1898 and 1899.
" H—Abatements.
" I—New supplies and ferrules returned.
" J—Balances remaining on ledger December 31, 1899.
" K—Revenue shown by ledgers January 1, 1900.

In submitting the foregoing report I beg leave to express to your honorable body my appreciation of your able co-operation in conducting the business of this office for the year just closed.

All of which is respectfully submitted,

HENRY C. NAILL,
Water Registrar.

STATEMENTS.

STATEMENT A.

Water Registrar's Cash Account for the Year 1899.

		Dr.	Cr.
To water rents for 1899	$426,506 22		
Less discount	15,031 69		
		$411,474 53	
To water rents for 1898		193,523 21	
" " 1897		5,304 51	
" " 1896		946 58	
" meter rents		206,844 92	
" interest on back water rents		5,330 45	
" Plumbing Department		56,627 98	
" meter plumbing		11,102 96	
" turn-offs (July 1 to December 31)		1,783 00	
" Lake Roland		1,205 56	
" Loch Raven		1,128 21	
" vacancies and turn-offs (Jan. 1 to June 30)		915 00	
" Lake Montebello		301 32	
" vacancies (July 1 to December 31)		238 00	
" Gay-street yard		190 07	
" extension of water supply		91 19	
" meter supplies		75 00	
" Western Pumping Station		51 25	
" Registrar's Department		22 50	
" repairs		15 73	
" general stores—Mechanical Division		15 46	
" Lake Clifton		3 00	
" current expenses		2 50	
" Eastern Pumping Station		1 25	
" 1945 3½ per cent. stock sold		370,000 00	
" interest on deposits		4,204 16	
By Deposits with City Register—			
January			$118,512 55
February			188,765 79
March			84,165 17
April			83,193 98
May			51,545 20
June			88,882 57
July			93,106 68
August			21,366 62
September			22,291 94
October			74,308 85
November			24,535 34
December			46,428 30
Interest from bank on deposits			4,204 16
Extension of water supply			91 19
Sales of 1945 3½ per cent. stock			370,000 00
		$1,271,398 34	$1,271,398 34

STATEMENT B.

WATER REGISTRAR'S DISBURSEMENT ACCOUNT FOR THE YEAR 1899.

	Dr.	*Cr.*
To Water Board warrants, drawn by the Water Board on the City Comptroller during the year	$1,284,224 12	
By extension of water supply		$382,091 00
" Commissioners of Finance		150,000 00
" repairs		62,047 04
" miscellaneous		34 719 61
" Registrar's Department		34,166 84
" meter supplies		33.500 77
" service connections		30,625 82
" Lake Roland		28,553 82
" general stores—Mechanical Division		24,842 43
" " Construction "		20,768 48
" Eastern Pumping Station		20,539 60
" Loch Raven		18,329 14
" Western Pumping Station		16,193 75
" Engineering Division		10,229 06
" Meter Division		9,884 56
" machine shop		6,416 50
" water shed patrol		4,937 36
" Lake Montebello		4,348 36
" Gay-street yard		4,254 14
" Mt. Royal Pumping Station		4,111 19
" current expenses		3,755 93
" Lake Clifton		2,675 19
" returned money		2,010 79
" Druid Lake		1,663 77
" printing and stationery		1,596 40
" Auditing Division		1,502 10
" Guilford Reservoir		1,155 94
" Hampden "		1,117 49
" Mt. Royal "		907 35
" High Service Reservoir		485 32
" Lake Clifton yard		459 66
" Jones' Falls conduit		301 87
" West Arlington standpipe		32 93
" Interest on 1916, 1922 and 1926 loans		310,000 00
" " 1945 loans		56,000 00
	$1,284,224 12	$1,284,224 12

STATEMENT C.

Trial Balance, General Ledger, December 31, 1899.

Folio.		*Dr.*
6	Construction of new work	$8,941,955 27
8	Real estate and water rights	771,718 87
10	Gunpowder real estate and water rights	235,593 23
16	Commissioners of Finance	788,840 00
67	Mayor and City Council, Water Board account	62,531 75
126	Mayor and City Council, extension of water supply account	81,733 16
155	Lake Clifton	2,672 19
161	Guilford Reservoir	1,155 94
177	Distributing mains	2,969,150 80
196	Meters	6,000 00
203	Lake Montebello	4,047 04
228	High Service Reservoir	485 32
233	Hampden Reservoir	1,117 49
237	Mount Royal Reservoir	907 35
240	Printing and stationery	1,596 40
241	Mount Royal Pumping Station	4,111 19
254	Current expenses	3,753 43
262	Registrar's Department	34,144 34
267	Returned money	2,010 70
317	Lake Roland	27,348 26
327	Auditing Division	1,502 10
336	Jones' Falls Conduit	301 87
342	Lake Clifton Yard	459 66
345	Gay Street Yard	4,064 07
384	Engineering Division	10,229 06

Folio.		*Cr.*
1	City 5 Per Cent. Water Stock	$5,000,000 00
1	City 4 Per Cent. Water Stock	500,000 00
1	City 4 Per Cent. Water Stock	1,000,000 00
1	City Water Stock redeemed	4,000,000 00
3	Profit and loss	2,816,615 89
7	City 3½ Per Cent. Water Stock	1,800,000 00
130	Vacancies (July 1 to December 31)	238 00
132	Turn-offs " " "	1,783 00
134	Meter plumbing	11,102 96
380	Plumbing Department	56,627 98
382	Interest from bank	4,204 16
459	Interest on water rents	5,330 45
502	Meter rents	206,844 92
504	Vacancies and turn-offs (January 1 to June 30	915 00
641	1896 water rents	946 58
643	1897 water rents	5,304 51
644	1898 water rents	193,523 21
646	1899 water rents	426,506 22

388	Druid Lake	$1,663 77		
394	Extension of water supply	1,718,266 84		
399	Meter supplies	33,425 77		
418	Discount	15,031 69		
427	General stores, Construction Div'n	20,768 48		
430	Interest on 1945 Loan	56,000 00		
433	Loch Raven	17,200 93		
467	Eastern Pumping Station	20,538 35		
471	Water shed patrol	4,937 36		
475	Repairs	62,031 31		
479	General stores, Mechanical Div'n	24,826 97		
483	Western Pumping Station	16,142 50		
505	Meter Division	9,884 56		
506	West Arlington stand pipe	32 93		
508	Machine shop	6,416 50		
510	Service connections	30,625 82		
512	Miscellaneous	34,719 61		
		$16,029,942 88		$16,029,942 88

STATEMENT D.

BALANCE SHEET, GENERAL LEDGER, DECEMBER 31, 1899.

Folio.		*Dr.*	*Folio.*		*Cr.*
6	Construction of new work	$8,941,955 27	1	City Five Per Cent. Water Stock	$5,000,000 00
8	Real estate and water Rights	771,718 87	1	" Four " " " "	1,500,000 00
10	Gunpowder real estate and water rights	235,593 23	1	" Water Stock redeemed	4,000,000 00
16	Commissioners of Finance	788,840 00	7	" Three-and-one-half Per Cent.	1,800,000 00
177	Distributing mains	2,969,150 80	3	Profit and loss	3,275,789 92
196	Water meters	6,000 00			
391	Extension of water supply	1,718,266 84			
67	Mayor and City Council, Water Board account	62,531 75			
126	Mayor and City Council, extension of water supply account	81,733 16			
		$15,575,789 92			$15,575,789 92

STATEMENT H.

ABATEMENTS CONDENSED FOR THE YEAR 1899.

	Number.	Delinquent.	Current.	Total.
January	439	$1,752 38	$1,101 00	$2,853 38
February	309	1,342 65	908 74	2,251 39
March	538	1,599 71	1,296 95	2,896 66
April	295	862 97	1,351 70	2,214 67
May	353	1,410 65	1,166 75	2,577 40
June	479	2,695 77	1,626 38	4,322 15
July	347	1,414 27	978 44	2,392 71
August	492	3,453 15	2,299 59	5,752 74
September	250	937 89	873 56	1,811 45
October	294	1,672 92	1,128 48	2,801 40
November	268	954 04	923 31	1,877 35
December	515	866 35	1,648 90	2,515 25
Total	4,579	$18,962 75	$15,303 80	$34,266 55

STATEMENT I.

NEW SUPPLIES AND FERRULES RETURNED FOR THE YEAR 1899.

1,826 new supplies	@	$12 00	$21,912 00
359 "	@	6 00	2,154 00
1,072 joint supplies	@	6 00	6,432 00
147 ferrules returned	@	2 00	294 00
Total			$30,792 00

STATEMENT J.

BALANCES REMAINING ON LEDGERS DECEMBER 31, 1899.

Current water rates	$231,328 22
Delinquent water rates	29,893 24
Meter rates	2,423 00
Plumbing bills	16,213 90
Total	$279,858 36

STATEMENT K.

REVENUE SHOWN BY LEDGERS JANUARY 1, 1900.

95,749 houses, yielding a revenue of	$665,217 18
Estimated revenue from meters and indicators	220,000 00
Total	$885,217 18

REPORT OF THE CHIEF ENGINEER.

BALTIMORE, MD., January 1st, 1900.

Honorable President and Members of the Water Board of Baltimore City:

GENTLEMEN:

I respectfully submit my report as Chief Engineer of the Water Board for the year ending December 31st, 1899.

In a report of this kind it is hardly possible to do more than to refer in general terms to the extensive work required during a year by so large a plant as that under the charge of the Water Board. Therefore I shall only attempt to outline what has been accomplished by the department in 1899, and would refer those who desire a more detailed account to the accompanying reports of the superintendents or heads of the various divisions in which the Water Department is divided, and to the tabulated statements showing expenditures, receipts and disbursements, costs of mains, cost of repairs to mains, and other cost accounts.

ENGINEERING DIVISION.

The Mount Royal Pumping Station has been completed. The grounds around the station have yet to be laid out and driveways and thoroughfares through the grounds properly paved. Also plans have been made for a vault to include the flanged pipes outside of the building, so that in event of leaks ready access to the pipes can be had. The station was dedicated on the 9th of November last, when the engines were first put in commission. The building is a handsome and elegant structure, and does credit to the Water Board and the city.

The standpipe at West Arlington has also been completed, the contractors having finished all there was to do on the masonry tower about March 1st last. Since the completion of the standpipe the Water Board directed a Keeper's Lodge and an Emergency Station to be built on the same lot, under the supervision of Mr. Henry Brauns, architect. These buildings were practically completed on December 1st last, and Andrew J. Forrest was appointed keeper. His term of service began with January 1st, 1900. The Emergency Station has not yet been occupied.

Previous to 1896, where two or more adjoining houses were erected at the same time, the builder frequently had them supplied with water by a single tap from the city main. Houses thus supplied by a joint pipe have proved a constant source of annoyance to the Department, for when for any reason the department desired to turn off water from one, it was almost impossible to do so without turning off all. The houses supplied by joint pipes became so numerous, and the corresponding annoyance to the Department so great, the Water Board directed, in 1897, that each house must have a separate and distinct connection with the city main. Since then every effort has been made to locate joint pipes, and probably one-half of the houses formerly receiving water in this way are separately supplied. We hope, before another year has passed, to have induced the owners of all properties now on joint pipe to make application for new and direct service connections.

In my report for 1898 I stated that the recent extensions of mains and other improvements in the system of water supply had made necessary two new complete maps of the city, on which to show the locations of mains, valves, fire hydrants, etc. One of these maps is a sectional map, made on a scale of 100 feet to one inch, and the other a large map, on a scale of 300 feet to one inch. Those familiar with map-making will readily understand that to make these maps as they should be made is a great undertaking. The whole office

force has been employed on them during the past year, when not otherwise engaged. The large map is nearly completed, and the sectional map has far advanced, and I hope, before another six months have passed, to have both maps completed.

The Engineering Division, during 1899, has chiefly been engaged with preparation of plans for and supervising construction. Of all the construction work, that done at Mount Royal Pumping Station has been the most important; the flanged pipe connections from the suction and force mains to the engines, in particular, required the greatest care to have them made accurately and satisfactorily. These connections have been completed, and have stood the test of service.

Mr. Samuel M. Gray's plan for improving and extending the system of water supply included the construction of a new reservoir in the neighborhood of Walbrook, of 75,000,000 gallons capacity, at an elevation of 350 feet, A. M. T. The cost, according to Mr. Gray's estimate, will be $450,000, and its construction will probably extend over several years. In the Department's estimate of expenses for 1899 I have allowed $65,000 for the cost of work to be done this year, and work on the reservoir should be commenced as soon as practicable.

AUDITING DIVISION.

The duties of the Auditing Division consist in auditing and recording in a proper manner the accounts of the Chief Engineer's office, and throughout the year this has been done in a very satisfactory manner. No bill has been accepted and approved for payment which has not been accompanied by the necessary vouchers; and accounts have been kept, not only with individuals, firms, etc., but also with the various subdivisions of the department. Tabulated statements have also been prepared by this division showing expenditures, receipts and disbursements of the department, cost of new mains and connections, cost of service connections, and costs of repairs to mains, hydrants, valves, etc. These tables will be found in the appendix to this report.

I have recommended to the Water Board that advertisements be inserted inviting proposals for such supplies as the Department expects to require in large quantities during the year ending December 31, 1900. This recommendation has been adopted, and advertisements will be inserted for proposals to be opened on the 24th of January next.

CONSTRUCTION DIVISION.

All of the extensions of mains originally contemplated in the plan of Mr. Samuel M. Gray have been completed, the last having been finished in the early part of the past summer. In addition to these extensions, other lines of main were laid during the year to supply deficiencies not foreseen at the time when Mr. Gray's plan was adopted. The most important of these lines were a thirty-inch high service main in North avenue, from Pennsylvania avenue to Tenth street, Walbrook; a ten-inch high service main from Dolphin street and McCulloh alley to Howard and Franklin streets; a twenty-four-inch middle service main in Park avenue, between Wilson and Laurens streets; a ten-inch middle service main from Park and Lexington streets to Fayette and Charles streets, and a ten-inch low service main in Fort avenue and Light street. The thirty-inch high service main was intended to augment the supply of East Walbrook, but this main can also be used as a distributing main from the new reservoir; the ten-inch high service main was for the purpose of reinforcing the supply in the vicinity of North Howard street, where the pressure has been entirely inadequate to the demand; the twenty-four-inch main was to connect up the thirty-inch main in Wilson street with the forty-inch main in Laurens street; the ten-inch middle service main was laid to give a better supply of water to consumers on Fayette street, between Park and Charles streets, where there had previously been only a six-inch pipe, and the ten-inch low service main in Fort avenue and Light street has reinforced the supply for that part of South Baltimore. Other extensions have also

been made, which have generally consisted of short lines of pipe to serve water to localities not hitherto supplied.

During the past year 109,832 feet of water mains were laid, consisting of pipe of all sizes, from three to forty-eight inches in diameter, made up as follows:

3-inch	pipe	3,408 feet.
4-inch	"	4,533 "
6-inch	"	47,089 "
10-inch	"	15,533 "
12-inch	"	17,334 "
16 inch	"	163 "
20-inch	"	11,405 "
24-inch	"	1,140 "
30-inch	"	6,928 "
36-inch	"	1,069 "
40-inch	"	56 "
48-inch	"	1,174 "
		109,832 feet.

In May, 1899, the Water Board authorized the purchase of a pipe-tapping machine, to be used for making connections between large mains while under pressure. Proposals for furnishing the machine and fittings were duly advertised for. The A. P. Smith Manufacturing Company, of Newark, N. J., offered to furnish the machine for $5,250, and its bid was accepted. The pipe-tapping machine has a capacity for making taps of from twenty-four to thirty-six inches in diameter, and much labor which was formerly involved in connecting up large mains is now no longer necessary. This method of making connections is a great improvement over the old, where it would have been necessary to shut off the water from the main to be tapped, and to have kept it shut off during the whole operation, which would probably have occupied more than twelve hours.

A more detailed account of the length, size and cost of mains laid by the Construction Division in 1899 will be found in the report of the superintendent.

METER DIVISION.

The business of the Meter Division has assumed large proportions. The total revenue derived from metered supplies in 1899 was $206,844.92, as against $181,461.94 for 1898, being an increase of revenue in 1899 over 1898 of $25,382.98. The number of new meters installed during the year was 241, which made a total of 1,792 meters and indicators in service on December 31, 1899. The average cost of installing meters in 1898 was $12.53 each, and in 1899 $6.69, being a difference in favor of the consumer of $5.84.

Applications for fire supplies have greatly increased in the past year. Underwriters have offered inducements, in form of lower rates, to owners of large manufacturing establishments to install automatic sprinkler systems, and it is to this that the increase in the number of fire supplies is due. The Board of Underwriters require that the automatic sprinklers shall be served with a six-inch connection from the city main, and that the connection be an open one, not covered by meter. Heretofore the only protection the Department had against an improper use of these supplies was the inspection of the Board of Fire Underwriters. This inspection has been a very rigid one, and no doubt afforded ample protection to the Department when the number of fire supplies was few, but since they have so greatly increased, I felt that special precautions should be taken. To this end, I have instructed the superintendent of the Meter Division to take sole charge of all fire supplies, to keep the valves sealed, and to make periodical inspections to insure that no use is made of the supply, other than for protection against fire. There are now 31 fire supplies in all, one-half of which were granted during the past year.

MECHANICAL DIVISION.

For the year 1899 the Mechanical Division has made quite a satisfactory showing. The machine shops have generally been operated on full time, and have chiefly been engaged with

routine work, consisting of making and repairing materials for use of other divisions of the Department, and making and repairing valves, fire hydrants, fountains, etc. The shops have turned out, ready for use, 956 gate valves, ranging from two to six inches in size, 100 five-inch and 25 four-inch fire hydrants, 50 meter strainers and 3 street fountains.

The laborers of the Mechanical Division have unloaded about 4,200 tons of water-pipe and special castings. A large part of these pipes and castings have been hauled to points along where work was being done by the contractor for hauling, and the balance remains in store at the Gay-street yard or the Clifton lot. The painters, under the supervision of the superintendent of the division, have painted the various department buildings at Lake Clifton, Mount Royal Reservoir, Druid Lake, Hampden, Guilford Reservoir, lake Montebello and Lake Roland. The work was done in a neat and workmanlike manner.

Tho total pumping capacity of the Water Department is now 61,000,000 gallons daily. Previous to the installation of the pumping engines in the Mt. Royal Pumping Station, the capacity was but 26,000,000 daily, and in summer, when the daily average demand was very high, the pumping capacity of the Department was taxed to the utmost. The total quantity of water pumped during the year was 6,384,754,168 gallons, a daily average of 17,492,477.

The remodelled engines in the Western Pumping Station were tested on the 4th of March last and found to perform the contractor's guarantee. They were, therefore, accepted. The boilers and engines in the Mount Royal Pumping Station have yet to be officially tested, but this will be done as soon as conditions permit.

COUNTY DIVISION.

All of the property of the Water Board in charge of the County Division is in an excellent condition, with the exception of the Jones Falls' Conduit. In the early part of the summer a crack developed in the crown of the conduit, about

midway between Clyburn and Mount Washington. An opening was made in the foundation, down to where the water led, and from thence it is carried off by a drain pipe 1½ inches in diameter. Permanent repairs will be made to the conduit as soon as the engines in the Mount Royal Pumping Station are ready for regular service.

The contractors for dredging Lake Roland began active operations on April 1st and continued until August 28th, when work was suspended by the Board. They resumed on September 28th for a few days, but did not commence regularly until November 7th, and on December 27th operations were stopped for the season. The suspensions were due to complaints as to the quality of the water furnished by the Middle Service. The Board believed that the dredging was, to some extent, responsible for these complaints, and therefore directed its suspension during the intervals named. A total of 161,032 cubic yards of material were removed during the season, which is probably about one-third of the dredging to be done.

The dredge at Loch Raven, owned by the Department, was put into operation on the 22nd of August and continued at work until the 30th of November. During this time 8961 cubic yards of deposit were taken from the lake. Dredging should be resumed from season to season until the bottom of the dam has been thoroughly cleaned.

CONCLUSION.

In concluding this report I desire to call attention to the superintendents or heads of divisions. All have done their duty, and each, in his own sphere, has been untiring in his efforts to promote the interest of his division, and for the general good of the Department.

Respectfully,

WM. L. KENLY,
Chief Engineer.

Report of the Engineering Division for the Year 1899.

OFFICE OF CONSULTING AND SUPERINTENDING ENGINEER,
WATER DEPARTMENT, CITY HALL,

BALTIMORE, Md., January 1st, 1900,

Major William L. Kenly, Chief Engineer Water Department, Baltimore, Maryland:

SIR:

I herewith submit the report of work done by the Engineering Division for the year ending December 31st, 1899.

Within the past year the water supply of Baltimore City has been materially improved by completing the Mount Royal Pumping Station and by completing and placing in service a number of feeder mains.

The Mount Royal Pumping Station was completed and dedicated with appropriate ceremonies on November 9th.

The 36-inch and 24-inch force mains and the 48-inch suction mains were laid from McMechen street to the pipe-room of the Pumping Station, going through the vault, which is finished with the exception of the roof. This contract has been let. The mains within the vault are flanged. On the force mains, check valves have been placed. This, the heaviest pipe work in the history of the Department, was expeditiously laid without accident.

A 48-inch gate has been placed on the suction main at the east end of the North-avenue bridge. Owing to the insufficient depth of covering over the bridge arches, the 48-inch main was divided into two 36-inch mains and carried to the west end of the bridge, where they were again brought together into a 48-inch main and thence to the Pumping Station.

At West Arlington the masonry of the stand pipe has been completed and the keeper's house has been finished. A pipe bridge of 22-foot span has been built over Gwynn's Run at Franklin street for the 20-inch Franklin-street line.

The following large pressure taps have been made: A 36x30-inch at North and Pennsylvania avenues; a 30x24-inch at McMechen street and Mount Royal avenue; a 30x24-inch at Park avenue and Wilson street, and a 20x20-inch at Fulton avenue and Franklin street.

The following water mains have been completed and charged:

The 48-inch North avenue suction main from Oak street across North avenue bridge to Mount Royal Pumping Station has been laid, completing the suction main from the station to Clifton Reservoir. The Clifton vault, Greenmount-avenue pipe tunnel and other special connections is added to the cost of the straight pipe work, and the total average cost per foot of this line is given in the table.

The 36-inch force main from Mount Royal Pumping Station to North avenue and McMechen street.

The 30-inch North-avenue main from Pennsylvania avenue to Seventh street.

The 24-inch force main from Mount Royal Pumping Station to Mount Royal avenue and McMechen street.

The 24-inch Park-avenue main from Wilson street to Laurens street.

The 20-inch Patterson-Park-avenue main from Chase and Chester streets to Patterson Park avenue and Fayette street.

The 20-inch Franklin-street main from Fulton avenue to Calverton road to Edmondson-avenue bridge, over Gwynn's Falls.

The 20-inch drain pipe at Mount Royal Pumping Station.

The 16-inch Oxford-avenue main from Grenada avenue to Garrison avenue.

The 12-inch Chesapeake-avenue main from the new Liberty road to Eleventh street,

The 12-inch Chase-street main from Patterson Park avenue to Milton avenue.

The 12-inch William-street main from Lombard and Greene streets to William street and Warren avenue.

The 12-inch Fairmount-avenue main from Milton avenue to Chesapeake street.

The 12-inch Milton-avenue main from Chase street to Fairmount avenue.

The 12-inch Garrison-lane main from Franklin street to Baltimore street.

The 10-inch Caroline-street main from Madison street to Pratt street.

The 10-inch Monument-street main from Buren street to Central avenue.

The 10-inch Park-avenue main from Garrett street to Lexington street.

The 10-inch Fayette-street main from Liberty street to Charles street.

The 10-inch Howard-street main from Dolphin street and McCulloh alley to Howard and Franklin streets.

The 10-inch Foster-alley main from Lanvale street to North avenue.

The 10-inch Fort-avenue main from Fort avenue and Harrison street to Leadenhall and Randall streets, and

The 10-inch Light-street main from Hughes street to Warren avenue.

In addition to the above a number of 6-inch mains to supply applicants for service connections have been laid.

I have the pleasure to report that during the past year of our administration no laborer has been injured in the discharge of duties by his fellow workmen or through the fault of the Department.

GENERAL OPERATIONS.

1. Designing and locating the large pipe lines for the better circulation and an increase in the pressure of the water throughout the system. Designing and locating lines of 6-inch and smaller pipe for supplying applicants for service connections and connecting dead ends.

2. Designing and preparing plans for special flange pipe and fittings, suction and force mains, concrete and brick piers under said mains, including the special steel work and vault over flanged pipe at south end of Mount Royal Pumping Station, floor thimbles, manhole rings and plates, drip pans, foundation for scale, electric subway, vault, check valves and supervising the field and construction work in connection with Mount Royal Pumping Station.

3. Preparing plans and supervising work at West Arlington Stand Pipe.

4. Various plans for crossing sewers and railroad tracks, special connections for water-mains, etc.

5. Locating new service and meter supplies put in during the year.

6. Locating branches, valves and connections inserted in pipe lines, and keeping record of the status of all service applications.

7. Investigating and reporting to the Water Registrar as to properties on joint private pipes. Investigating and reporting illegal connections and supplies.

8. Estimating quantities of pipe, special castings, valves, etc., for laying mains during the year.

9. Keeping a record of all straight pipe made for the Department; amount of pipe, specials and valves ordered and shipped; of the shipment, receipt, transfer and unloading of all car-loads of such material, and of the receipt and disbursements of large special castings and all pipe, both standard and special, at the storage yards.

10. Plotting on the Department maps the mains laid during the year; making sketches of meter locations, preparing specifications and contracts for all material used by the Department during the year.

11. Designing and preparing plans of copper final, arrangement of trap doors in floor, bronze gutter plates, coping stones for foundation, pressure gauge dial and iron vault doors for West Arlington Stand Pipe.

12. Hand levers for map table, frost casting of 20-inch pipe over Gwynn's run to Franklin street, corn-crib at Loch Raven, etc., etc.

13. Supervising the construction and field work of the Department and continuing the work on large map of the city and on the half-mile section maps.

RESUME OF WORK DONE.

Feet of Pipe Lines Laid in 1899:

3-inch, 3,408 feet; 4-inch, 4,533 feet; 6-inch, 47,089 feet; 10-inch, 15,533 feet; 12-inch, 17,334 feet; 16-inch, 163 feet; 20-inch, 11,405 feet; 24-inch, 1,140 feet; 30-inch, 6,928 feet; 36-inch, 1,069 feet; 40-inch, 56 feet; 48-inch, 1,174 feet.

New branches and connections located	470
Valves located	663
Service connections located	3,539
Meter service located	325
Fire hydrants located	144
Plumbing connections inspected	917
Plans prepared for extension of mains	194
Miscellaneous plans and drawings	73
Sketches of meter locations	281
Private pipe inspections	870

I herewith submit a table, showing in detail the length and cost of new mains, and the length and cost of new connections for the year 1899 of the lines completed in this year. Lines not fully completed before January 1st, 1900, are not included in this table.

Respectfully submitted,

S. G. Brosius,

Consulting and Superintending Engineer.

Report of Auditing Division.

OFFICE OF CHIEF CLERK, WATER DEPARTMENT,

BALTIMORE, January 1st, 1900

Major Wm. L. Kenly, Chief Engineer:

DEAR SIR: I beg leave to submit the following report for the year ending December 31st, 1899:

The duties of this Division consist largely in the auditing and recording in proper manner of all bills rendered to the Department. This work has been done in a careful manner throughout the year. No bill has been accepted and passed that has not been accompanied by the proper vouchers, and accounts have been kept not only with individuals, firms, etc., but also with the various sub-divisions of the Department, while a record has been kept of all disbursements, distinguishing those that have been charged to the two million loan from those that have been charged to the Water Board.

In addition to this a detailed record has been kept, showing the amount, cost and character of all material consumed and labor expended, as well as the total results accomplished in the following directions, viz.:

New mains laid	Appendix A
Mains connections	" D
Metered supplies inserted	"
Hydrants, fountains and valves inserted	" F
Service connections inserted	" C
Repairs to mains	" B
Repairs to meters and service connections	" E
Repairs to hydrants, fountains and valves	" G
Miscellaneous work done	" H

For particulars I would refer you to the tabulated statements as above noted.

A few changes in the personnel of the division occurred within the year, Mr. E. F. Mehan, who had shown himself a most efficient clerk, was taken away by the grim reaper, death, and was succeeded by Mr. Thomas J. Brian. Mr. Frank Beard was succeeded by Mr. Frank Yost. With these exceptions the force has remained unchanged from that of last year.

Thanking you for the uniform courteous treatment which the Division has received at your hands, I respectfully submit my report.

L. H. DURLING,
Chief Clerk.

Report of Superintendent Construction Division.

CONSTRUCTION DIVISION,
OLD CITY HALL, HOLLIDAY STREET,
BALTIMORE, January 1, 1900.

Major William L. Kenly, Chief Engineer:

SIR—I herewith respectfully submit my report of work done during the year 1899.

There were laid in the following localities additional large mains on the

LOW SERVICE.

A forty-eight-inch suction main for the Mount Royal Pumping Station was continued and laid on the south side of North avenue, from the east building line of Oak street to the south sidewalk of the North avenue bridge; thence across the bridge to the south sidewalk of McMechen street, thence westerly to a sixty-six-foot street, and southerly along the latter to the pumps. A forty-eight-inch gate with by-pass was placed at North avenue and Oak street. The forty-eight-inch main was reduced to two thirty-six-inch lines over the railroad viaducts of the bridge, for want of proper depth over the arches. The connection of the forty-eight-inch main with the forty-inch mains coming out of Lake Clifton gate house, on Washington street extended, was completed March 20th, and a vault was constructed to house the gates controlling the line. Water was passed across the North avenue bridge on October 4th. Pipe laying on this line began June 8, 1897. Length of thirty-six-inch pipe on the bridge, two lines each 279 feet long; length of forty-eight-inch main, 12,985 feet; cost, $———.

A twenty-inch main from the corner of Columbia avenue and Paca street, thence along Columbia avenue to Portland, to McHenry, to Barre street, to Columbia avenue, to Scott street. This line was begun October 12, 1898, and completed January 20, 1899. Length, 2,831 feet; cost, $12,246.91.

Ten-inch lines on Fort avenue, between Leadenhall and Hanover streets, completed February 10th; length, 1,000 feet; cost, $1,676.53. Light street, between Hughes street and Warren avenue; completed June 5th; length, 608 feet; cost, $1,123.68. Caroline street, between Madison and Pratt streets, completed June 5th; length, 3,780 feet; cost, $6,175.67. Monument street, between Buren street and Central avenue, begun November 2; unfinished.

There were laid additional large mains on the

MIDDLE SERVICE.

A twenty-four-inch main on McMechen street, from Mount Royal avenue easterly to the sixty-six-foot street alongside of the Mount Royal Pumping Station, thence southerly along the latter to the pumps. A 30x24 A. P. Smith tap was made at Mount Royal avenue and McMechen street on the thirty-inch Middle Service main coming out of Mount Royal vault-house. The pumps will thus deliver Low Service water through this twenty-four-inch main into the Middle Service Distributing Mains, and simultaneously into Druid Lake. The pumps were started October 27th. The line was completed September 20th. Length, 630 feet; cost, $———.

A twenty-four inch main on Park avenue, between Wilson and Laurens streets, connecting together the thirty inch and forty inch mains on the latter streets. A 30 x 24 A. P. Smith tap was made at Park avenue and Wilson street. Completed November 24th. Length, 337 feet; cost, $———.

A twenty-inch main on Chase street, from Chester street to Patterson Park avenue, thence southerly on Patterson Park avenue to Fayette street. Completed December 11th. Length, 4,251 feet; cost, $———.

Twelve-inch lines on Chase street, between Patterson Park and Milton avenues. Completed December 26th. Length, 814 feet; cost, $1,247.41. From the corner of Lombard and Greene streets, along Greene to Pratt street, to Eutaw, to Hamburg, to William, to Warren avenue. Until the forty-inch Greene-street main is thrown into the Middle Service this South Baltimore twelve-inch line is now being served from the Low Service. A 40x12 A. P. Smith tap was made at Lombard and Greene streets. Completed July 29th. Length, 7,746 feet; cost, $13,379.19. Milton avenue, between Chase street and Fairmount avenue, and Fairmount avenue, between Milton avenue and Canton street. This line has been laid as far as Chesapeake street. With unimproved ground between Chesapeake and Canton streets there is no immediate necessity for the extension to Canton street, Commenced October 18th; unfinished.

Ten-inch lines on Park avenue, between Lexington street and Garrett alley. Completed July 11th. Length, 592 feet; cost, $1,160.68, On Fayette street, between Liberty and Charles streets. Completed December 14th. Length, 722 feet, cost, $———.

There were laid additional mains on the

HIGH SERVICE.

A thirty-six-inch main running from the North-avenue thirty-six-inch main at McMechen street, along the latter street to the sixty-six-foot street, which skirts the Mount Royal Pumping Station, thence to the pumps. Low Service water is delivered by the pumps through this main into the High Service Distributing Mains, and simultaneously into the High Service Reservoir. Completed September 18th. Length, 446 feet; cost, $———.

A thirty-inch main on North avenue, between Pennsylvania avenue and Tenth street, Walbrook. A 36x30 A. P. Smith tap was made at Pennsylvania and North avenues. This line has been laid as far as North avenue and Seventh street, and is not in service. Begun March 21st, 1899.

A twenty-inch main from the corner of Fulton avenue and Franklin street, thence along Franklin street to Garrison lane, to Edmondson avenue, to near the bridge over Gwynn's Falls. A 20x20 A. P. Smith tap was made on the twenty-inch Fulton-avenue main. Gwynn's Run was crossed on a structural Iron Girder, and the main has been encased to protect same from weather. Until the Fulton-avenue twenty-inch main is thrown into the High Service, this Franklin-street line is now being served from the Middle Service. Completed December 29th. Length, —— feet; cost, $———.

A twelve-inch main on Garrison lane, between Baltimore and Franklin streets. For the same reason stated above, this line is yet in the Middle Service, connected as it is with the Franklin-street twenty-inch main, and is awaiting the change of the Fulton-avenue twenty-inch line into the High Service. Completed December 21st. Length, —— feet; cost, $———.

Ten-inch lines from the corner of Dolphin street and McCulloh avenue, thence along McCulloh alley to St. Mary street, to Madison avenue, to Linden avenue, to Druid Hill avenue, to Howard, to Franklin streets. Completed December 28th. Length, —— feet; cost, $———. On Foster alley, between North avenue and Lanvale street. A 36x10 A. P. Smith tap was made for this line at North avenue and Foster alley. Completed December 19th. Length, 2,158 feet; cost, $3,589.72.

There was laid additional large mains on the

UPPER SERVICE.

A sixteen-inch main on Oakford avenue, between Granada avenue and Garrison avenue. Completed January 27th. Length, 136 feet; cost, $318.68.

A twelve-inch main on Chesapeake avenue, between New Liberty road and Eleventh street. Completed April 19th. Length, 1,196 feet; cost, $1,889.97.

Some of the longer lines of six inch mains laid during the year are:

I. Leadenhall street, between Randall and Wells streets. Completed January 10th. Length, 839 feet; cost, $768.03. Low service.

II. Federal, between Patterson Park and Milton avenues. Completed March 16th. Length, 814 feet; cost, $702.75. Middle service.

III. Carroll street, between Cross and Carey streets. Completed April 18th. Length, 1,047 feet; cost, $650.71. Low service.

IV. Lanvale street, between Montford and Milton avenues. Completed May 25th. Length, 1,037 feet; cost, $708.94. Middle service.

V. From Eager and Chester streets to Collington avenue, to Ashland avenue. Completed July 7th. Length, 851 feet; cost, $487.59. Middle service.

VI. Reisterstown road, between Kate avenue and city limits. Completed August 3d. Length, 1,028 feet; cost, $659.51. Upper service.

VII. Frederick avenue, between Pulaski street and Goldsmith alley. Completed August 17th. Length, 851 feet; cost, $681.89. Middle service.

VIII. Ramsay and Christian streets, between Payson and Monroe streets. Completed October 19th. Length, 874 feet; cost, $664.64. Middle service.

IX. Madison street, between Chester street and Patterson Park avenue. Completed July 22d. Length, 855 feet; cost, $570.42. Middle service.

X. Merryman's lane, between Elm avenue and Stoney Run. Completed October 17th. Length, 2,257 feet; cost, $1,311.95. High service.

XI. Old Pimlico road, east of Park Heights avenue. Completed October 18th. Length, 1,357 feet; cost, $867.79. Upper service.

March 16th the connection was completed at Madison avenue and Rose street between the sixteen-inch Rose street and the new forty-inch Madison avenue middle service mains. The route of the latter is from Mount Royal avenue and Lennox street, along Lennox street to Park avenue, to Laurens, to Bolton, to Hoffman, to Madison avenue, to Orchard, to Tessier, to St. Mary, to Pennsylvania avenue, to Pearl, to Fayette, to Greene, to Lombard street.

Until the Lombard street thirty-inch main west of Greene street is thrown into the middle service, the forty-inch main on Greene and on Pearl streets is now being served from the low service as far north as the corner of Mulberry and Pearl streets. The forty-inch line was begun June 1st, 1897. Length, 11,673 feet; cost, $110,363.90.

The mains laid during the year for distribution were.

—— feet —— inches of 3 inch pipe, costing $——, or —— per foot.
" " 4 " " " "
" " 6 " " " "
" " 10 " " " "
" " 12 " " " "
" " 16 " " " "
" " 20 " " " "
" " 24 " " " "
" " 30 " " " "
" " 36 " " " "
" " 40 " " " "
" " 48 " " " "

The aggregate length of all water mains to date is —— miles, of which —— miles were laid during the year 1899.

There were 127 fire plugs erected on new sites, of which 30 were of the Ludlow pattern.

The fire plug located at the foot of Allison alley, on the harbor front, had to be removed.

There were 35 new fire plugs erected on old sites to replace defective old styles.

The total number of fire plugs January 1st, 1900, is 2,238.

A new bottle fountain was erected in front of 2001 Oak street.

The following removals of old fountains to new sites were made:

From southeast corner of Eager and Concord streets to the southwest corner of same.

From northwest corner of Dolphin and Pennsylvania avenue to the east side of Pennsylvania avenue, near Dolphin street.

From northeast corner of Hanover and Church streets to the southeast corner of Montgomery and Hanover streets.

From northeast corner of Hanover and Heath streets to the west side of Hanover, between Winder and McComas streets.

From south to the north side of Hughes street, near Covington street.

From northeast corner of Aliceanna and Caroline streets to ten feet east of old site.

From southeast corner of Clement street and Riverside avenue to north side of Clement street, near Battery avenue.

From east side of Central avenue and Orleans street to forty feet south of old site.

From Clement street, near Battery avenue, to southeast corner of West and William streets.

A new bottle fountain was erected at the southeast corner of Eutaw and Cross streets to replace old square fountain.

There are in the city 213 public fountains. They have been kept in an exceptionally clean and good condition during the year.

The number of new service connections put in during the year has been 3,314, of the following character:

57	increase supplies.	Bills rendered.
1,826	services at the price,	$12 00
359	" " " "	6 00
1,072	" " " "	6 00, termed N. C. O. S. or new services, replacing such as were on joint private pipe

MOUNT ROYAL PUMPING STATION.

A considerable amount of work has been done during the year on the grounds of the new station. The thirty-six-inch High Service, the twenty-four-inch Middle Service and the forty-eight-inch Low Service mains, named in the order of their relative positions below street level, have been laid to the building, in the bed of a sixty-six foot street, skirting the west side of the grounds.

Eleven wells five feet in diameter were sunk to rock bottom and concrete piers constructed in them to support the flanged pipe and pipe connections to the pumps. A brick vault was built to house the thirty-six and twenty-four inch check valves; also twelve brick pillars were provided on concrete beds to support all these mains throughout their length, the nature of the grounds towards McMechen street being a "fill."

A twenty-inch drain pipe one hundred and fifty-five feet in length was laid into sewer.

A vault twenty-two feet wide and ninety-four feet long and fourteen feet high is in course of construction to enclose the mains as they enter the building.

In addition to this, the work of laying out and grading the grounds has been proceeded with, an electrical subway was laid, and the installation of a platform scale begun.

Respectfully submitted,

CHARLES KRAUSE,
Superintendent of Construction.

Report of Superintendent of Meter Division.

BALTIMORE, December 31, 1899.

Major Wm. L. Kenly, Chief Engineer, Water Department:

DEAR SIR—Appended to this report I send you statements of the various work in detail; also an inventory of stock, material and tools now in the Construction and Testing Departments of this Division.

I most positively and strongly urge that some provision be made that will take all indicators out of service. Indicators are no use whatever in measuring the quantity of water consumed, and give more trouble than all the meters in the department service.

I would recommend that a law be passed that would especially abolish all indicators, and in lieu thereof that meters be substituted, and that the expense of such substitution be paid by the owner of the property using such meters. I am sure that such a law would be the means of increasing the revenue to a surprising extent, and would give satisfaction to all persons that have a desire to pay for such quantities of water as would be used by them.

I feel very grateful for your universal kindness and assistance to me in my duties. I must also thank all the men in the various departments of this Division for their faithfulness and careful work.

We have not had an accident or one report of unskillful work during the year.

The following is a summary of work done by the Meter Division during the year 1899:

Revenue from meters (rents), 1899	$206,844 92
Revenue from meters (rents), 1898	181,461 94
Increase in revenue in 1899	$25,382 98

Average cost of placing meters in service in 1898...		$12 53
Average cost of placing meters in service in 1899...		6 69
Difference in favor of consumers in 1899.....		$5 84
Number of meters and indicators in service December 31, 1898.....		1,551
Number of new meters (new service) installed during 1899.....		241
Number of meters placed in service in place of old meters (condemned).....	59	
Number of meters placed in service (as auxiliaries) in place of indicators by order of the Water Board.....	27	
Number of new meters installed in place of indicators, upon application of the property owners	66	
	152	
		1,792
Number of meters in service December 31, 1899.....	1,511	
Number of indicators in service December 31, 1899.....	281	
		1,792
Number of repair jobs chargeable, 380; labor cost...		$1,225 61
" " " not " 716; " ...		1,020 79
" new fire supplies installed.....		12
" " meters packed with manure.....		624
Average number of men employed (Testing and Construction Department).....		16
Fourteen uncompleted bills, labor cost.....		$46 84
Number of meters tested.....		558
" fish traps placed in service.....		133
" meter boxes placed in service.....		260
" meters repaired.....		193
" meters sealed.....		1,564
" meters on hand December 31, 1898. 269		
" meters received during 1899..... 191		
	460	

Number of meters placed in service during 1899.....		393
" meters on hand December 31, 1899, at Gay street yard.....	64	
" meters on hand December 31, 1899, at Old City Hall.....	3	
		67

Very respectfully,

HOWARD TUXWORTH,

Superintendent of Meter Division.

Report of Testing and Constructing Department.

Major Wm. L. Kenly, Chief Engineer.

BALTIMORE, Dec. 31, 1899.

DEAR SIR—I hereby beg leave to submit the following report of the Testing and Construction Departments of the Meter Division for the year ending December 31, 1899:

TESTING DEPARTMENT.

Number of Meters on Hand January 1, 1899.

1½-inch Disc	2	
¾-inch Hersey	48	
1-inch "	47	
1½-inch "	34	
2-inch "	34	
3-inch "	7	
6-inch "	1	
2-inch Torrent	11	
3-inch "	48	
4-inch "	30	
6-inch "	7	
		269

Number of Meters Received during the Year.

⅝-inch Disc	98	
¾-inch Hersey	10	
1-inch "	10	
4-inch "	5	
3-inch Torrent	58	
4-inch "	4	
3-inch Hersey	6	
		191
Total		460

Number of Meters Installed during the Year.

⅝-inch Disc	96	
¾-inch Hersey	54	
1-inch "	59	
1½-inch "	19	
2-inch "	23	
3-inch "	12	
4-inch "	4	
3-inch Torrent	88	
2-inch "	8	
4-inch "	29	
6-inch "	4	
		396
Number on hand December 31, 1899		64

Meters tested	558
Fish traps put in service	133
Meter boxes put in service	260
Meters repaired	193
Meters sealed	1,564
Meters condemned	56
Screw locks used	240
Box glass, 12x14, used	1
Counter covers for meters	53
Lumber used, boards	510
Average number of men employed	6

CONSTRUCTION DEPARTMENT.

New Meters Installed.

		Labor—Cost.	Average.
96	⅝-inch Disc	$199.91⅝	$2.08
54	¾-inch Hersey	306.72⅘	5.66
58	1-inch "	274.95⅝	4.74
19	1½-inch "	174.28⅝	9.17
23	2-inch "	297.12	12.92
11	3-inch "	154.20⅖	14.02
3	4-inch "	42.69⅛	14.23
8	2-inch Torrent	65.34	8.17
88	3-inch "	682.93⅛	7.76
29	4-inch "	378.52⅜	13.05
4	6-inch "	52.57⅛	13.14
393		$2,629.27⅛	$6.69

Auxiliary meters in service	27
New fire supplies installed	12
New meters installed in place of indicators	93
New meters installed in place of old ones	61

Number of Repair Jobs.

Chargeable, 380; labor cost, $1,225.61⅛. Not chargeable, 716; labor cost, $1,020.79⅜.

Number of new meters installed in 1898, 84; labor cost, $1,057.75; average, $12.53.

Average number of men employed, 10.

Meters, packed, 624.

Uncompleted bills, 14; labor, $46.84⅜.

The difference between the Testing and Construction Departments of the number of meters installed is caused by 1 3-inch torrent and 2 4-inch torrents. Still in shop; to be installed.

List of Uncompleted Work.

	Labor.
Sharp and Stockholm streets	$11 65⅝
No. 122 N. Broadway	6 06[4]
No. 119 W. Baltimore street	1 00[7]
S. W. Wyman, S. W. corner Hanover and German streets	1 60[4]
United Railways Co., Lovegrove alley and 25th street	2 77[1]
United Railways Co., 2590 Druid Hill avenue	6 45[4]
E. A. Dryden, N. E. corner Concord and Bowley streets	1 96[7]
No. 47-42 S. Paca street	2 01[6]
Harlem Bus Co., Winchester street and Fulton avenue	4 02
Phœnix Club, Eutaw Place	4 46⅜
No. 109-117 W. Camden street	1 28⅛
No. 2209 Madison avenue	1 26⅛
N. E. corner Lee and Howard streets	1 00⅞
N. E. corner Madison and North streets	1 26⅛
	$46 84⅜

List of Auxiliary Meters in Service.

Nos.	1899
69,026—¾-inch H.—Evans & Spence, 914, 916 E. Lombard st	4-25
69,082—1-inch H.—Stewart's stables, Park avenue and Clay st	4-25
69,099—1-inch H.—Nos. 109-117 W. Camden st	8-4
78,156—3-inch torrent—J. A. Gary, 106, 108 W. German st	8-25
71,530—4 " " —G. B. Graham, Lombard and Concord st.	9-16
78,160—3 " " —G. B. Graham, " " " "	9-16

67,886—3-inch torrent—Wilson & Burns, 29, 31 S. Howard st..... 5-13
79,837—3 " " —J. Burrows, 22 Hanover st..... 10-13
79,839—3 " " —Francis White, 3 S. Howard st..... 10-16
79,949—3 " " —E. C. Brooks, 327 W. Baltimore st..... 10-28
81,156—3 " " —E. C. Brooks, 321 " " " 10-30
81,157—3 " " —Wm. Keyser, 307, 309 W. Baltimore st... 10-31
81,158—3 " " —Wm. Keyser, " " " " " ... 11-1
79,845—3 " " —Dushane & Co., 44 S. Charles st. 11-11
81,160—3 " " —E. Greenbaum, 17 W. German st..... 11-16
79,842—3 " " —A. B. McCreery, 111 W. German st..... 11-20
79,843—3 " " —A. B. McCreery, 109 " " " 11-21
81,933—3 " " —Mrs. M. Krager, Paca and Fayette sts..... 11-21
68,641—4 " " —Abell estate, 10 N. Howard st..... 11-29
81,932—3 " " —Pearre Bros., 2, 4 Hanover st..... 12-1
81,159—3 " " —S. Frank, s. e. cor. Hanover & German st 12-2
71,534—4 " " —Abell estate, 12 N. Howard st..... 12-3
81,994—3 " " —Hopkins Hospital, 21 Hanover st..... 12-5
81,995—3 " " " " " " " 12-5
81,931—3 " " —Fisher & Marshall, 107 W. German st..... 12-5
69,138—2 " H.—Timothy Ryan, Jr., Water st. and Jones Falls 12-5
81,997—3 " torrent—D. Aserbach, Lombard and Sutton sts..... 12-9

New Fire Supplies Placed in Service During 1899.

1899.	Labor cost.
March 9—3-inch, Stinson & Co., 327-335 North st.....	.....
" 10—3-inch, Balto. Con. Ry. Co., 1227-1245 Columbia av.	.....
" 20—3-inch, Est. Kiernan Eagan, 301-303 E. Falls ave.	.....
July 29—6-inch, Heise & Brauns, S. E. cor. Central and Eastern aves.....	.....
Aug. 18—6-inch, M. S. Levy & Son, S. E. cor. Paca and Lombard sts.....	.....
Aug. 22—3-inch, Reliable Furnitnre Co., No. 305 President st.	.....
" 29—6-inch, Tunis Lumber Co., Boston and Chesapeake sts.....	.....
September 27—3-inch, the Auditorium Co., Mt. Royal and Maryland aves.....	.....
Oct. 20—3-inch, J. W. Albaugh, 1211-1215 N. Charles st.....	.....
Dec. 6—6-inch, Wise Bros., 126-132 W. Fayette st.....	.....
" 21—6-inch, Oppenheimer, Oberndorf & Co., 112-124 W. Fayette st.....	.....
Dec. 19—6-inch Crown Cork & Seal Co., 309 Girard ave.....	.....

LABOR AND COST GENERAL WORK.

1899. Date.	No. of Inspections.	New Dials.	New Meters.	Digging Test Holes.	Labor Cost.	Bill Work. No. of Jobs.	Labor Cost	Repair Work Not Chargeable No. of Jobs.	Labor Cost.
January	.....	.....	14	.....	.....	.....	.....	.....	.....
Febr'y..	158	1	11	.....	.....	30	$103 73	46	$78 31
March ..	423	2	27	5	$32 14	29	106 90	108	190 94
April ...	298	7	29	.....	.....	26	83 00	125	178 42
May	399	6	52	10	22 97	7	27 09	133	145 69
June.....	238	9	43	9	12 80	18	68 41	112	148 29
July	.....	1	56	1	1 86	31	117 33	57	68 28
August..	.....	.....	43	.....	.....	53	134 35	46	59 70
Sept.....	.....	1	22	1	1 37	55	241 15	38	44 80
Oct	.....	.....	20	2	4 33	93	240 81	23	49 71
Nov.....	.....	.....	58	5	8 50	32	91 22	16	28 86
Dec	.....	.....	18	1	4 00	37	121 38	36	56 39
	1,516	27	393	34	$87 97	411	$1,335 37	739	$1,049 39

NEW METERS INSTALLED DURING 1899.

Date.	Kind.	⅝	¾	1	1½	2	3	4	6	Total.
1899.										
	Disc.									
	Her.		1	4	1	2	1			9
	Tor.					2	2	1		5
January	Total		1	4	1	4	3	1		14
	Disc									
	Her.		3	3		1		1		8
	Tor						1	2		3
February	Total		3	3		1	1	3		11
	Disc.									
	Herr		5	10		2	3	2	1	23
	Tor							2	2	4
March	Total		5	10		2	3	4	3	27
	Disc					6	1			26
	Her		10	9				2	1	3
	Tor									
April	Total		10	9		6	1	2	1	92
	Disc.	31								31
	Her.		6	7	3	1				17
	Tor.						2	2		4
May	Total	31	6	7	3	1	2	2		52
	Disc.	1								1
	Her.		2	2		1				5
	Tor					1	27	7	2	37
June	Total	1	2	2		2	27	7	2	43

NEW METERS INSTALLED DURING 1899—Continued.

Date.	Kind.	⅝	¾	1	1½	2	3	4	6	Total.
1899.										
	Disc.....	25	.....	.....	.....	.....	.....	.....	.....	25
	Her.....	.....	4	4	2	.....	3	.....	.....	13
	Tor.....	.....	.....	.....	.....	3	12	3	.....	18
July.....	Total ...	25	4	4	2	3	15	3	.....	56
	Disc.....	1	.....	.....	.....	.....	.....	.....	.....	1
	Her.....	.....	11	10	5	2	.....	1	.....	29
	Tor.....	.....	.....	.....	.....	.....	11	2	.....	13
August	Total ...	1	11	10	5	2	11	3	.....	43
	Disc.....	2	.....	.....	.....	.....	.....	.....	.....	2
	Her.....	.....	6	1	2	1	2	.....	.....	12
	Tor	.....	.....	.....	.....	.....	5	3	.....	8
September ...	Total....	2	6	1	2	1	7	3	.....	22
	Disc.....	1	.....	.....	.....	.....	.....	.....	.....	1
	Her.....	.....	3	3	1	1	.....	.....	.....	8
	Tor	.....	.....	.....	.....	1	8	2	.....	11
October.....	Total....	1	3	3	1	2	8	2	.....	20
	Disc.....	31	.....	.....	.....	.....	.....	.....	.....	31
	Her.....	.....	3	5	3	3	2	.....	.....	16
	Tor	.....	.....	.....	.....	.....	9	1	1	11
November... .	Total.....	31	3	5	3	3	11	1	1	58
	Disc.....	4	.....	.....	.....	.....	.....	.....	.....	4
	Her.....	.....	.....	.....	.....	2	.....	.....	.....	2
	Tor	.....	.....	.....	.....	1	9	2	.....	12
December.....	Total.....	4	.....	.....	.....	3	9	2	.....	18

Respectfully submitted,

HOWARD TUXWORTH,

Superintendent of Meter Division.

SUMMARY.

1899.	Kind.	⅝	¾	1	1½	2	3	4	6	Total.
	Disc	96								96
	Hersey		54	58	19	23	11	3		168
	Torrent					8	88	29	4	129
	Total	96	54	58	19	31	99	32	4	393

SUMMARY.

Kind.	Jan.	Feb.	Mch.	Apr.	May	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Dics					31	1	25	1	2	1	31	4	96
Hersey	9	8	23	26	17	5	13	29	12	8	16	2	168
Torrent	5	3	4	3	4	37	18	13	8	11	11	12	129
Total	14	11	27	29	52	43	56	43	22	20	58	18	393

Report of Superintendent Mechanical Division.

BALTIMORE, December 31, 1899.

Major Wm. L. Kenly, Chief Engineer, Water Department, City Hall:

DEAR SIR—I beg to submit the following statement of work performed by the Mechanical Division during the year ending December 31, 1899.

This Department has been working full time during the year, and has chiefly been engaged with routine work of making and repairing gate valves, fire hydrants, street fountains, and making and repairing tools, appliances and machinery for the various divisions of the Department.

The machine shop fit up ready for use 956 gate valves, consisting of 84 two-inch, 150 three-inch, 200 four-inch, 500 six-inch, 19 ten-inch, 3 twelve-inch; also 25 four-inch and 100 five-inch fire hydrants, and 25 three-inch and 25 four-inch meter strainers. Extensive repairs were made to three fire hydrants, three street fountains, 53 valve gates of the following sizes: 13 two-inch, 10 three-inch, 11 four-inch, 12 six-inch, 3 ten-inch, 2 twelve-inch and 2 twenty-inch.

The erection of a stable in the rear of the keeper's residence at Lake Clifton was completed in January, according to plans furnished by the Department.

The painters employed in the Department have painted in a neat and workmanlike manner various department buildings at Lake Clifton, the interior and exterior of stable; at Mount Royal Reservoir, the exterior of keeper's residence and interior of gate vault; at Druid Lake, the interior and exterior of engineer's residence; at Hampden Reservoir, the interior of keeper's residence, the interior and exterior of gate house; at Guilford Reservoir, the interior and exterior

of keeper's residence; at Lake Montebello, the interior and exterior of gate house; at Lake Roland, the exterior and first floor, interior of keeper's residence, barn, corn crib, wagon shed, iron fence, railing around dam, gate house and bridge; at Loch Raven, the interior of dwelling and glazing in other buildings; at Gay Street Yard, the exterior of machine shop, smith shop, stable, scale, office and cover; the exterior of Eastern Pumping Station; the exterior and interior of Western Pumping Station, except the interior of boiler room.

The machinery, shops and yard are in good condition.

This division has unloaded about 4,200 tons of water pipes and special castings, the greater part of which was hauled by the contractors for hauling to lines of work, and the balance is held in store at the Gay Street Yard or Clifton lot.

Respectfully submitted,

EDWARD G. ROST,
Superintendent Mechanical Division.

Report of Engineer and Superintendent of County Division for the Year Ending December 31, 1899.

BALTIMORE, December 31, 1899.

Major W. S. Kenly, Chief Engineer:

SIR—The rainfall on the Jones' Falls supply was 43.90 inches.

The water in Lake Roland has been too muddy to use for 16 days. It was very low during the summer, the lowest recorded being on September 19, when it was 8.75 feet below the crest of the dam. No water passed over the dam between July 10 and September 25. The dwelling, barn, corn crib and shedding have been painted.

The contractors for dredging began active operations on April 1 and continued uninterruptedly until August 28, when they were stopped, by order of the Water Board. Were permitted to resume again September 28; continued until October 3, when they were again ordered to shut down, and were not permitted to start until November 7; then continued until December 27, when they had to stop, owing to the lake having become frozen over; 161,032 cubic yards have been removed to date at a cost of $30,715.24. Realized from the sale of hay, wood, sand and fodder, $850.42.

There is a crack in the crown of the Jones' Falls Conduit about midway between Clyburn and Mt. Washington. An opening was made down to the foundation. All the water led to this and was carried off through a 1½-inch pipe. Permanent repairs should be made as soon as the pumps in the Mt. Royal Pumping Station are in condition to keep Druid Lake up without the assistance of Lake Roland. Realized from pasturage, $10.

Hampden Reservoir continues in good order. The Gate House has been painted and the wire fence along the Falls Road removed. With these exceptions there has been no unusual expense.

Druid Lake, the Vault and Lower Stop House continue in good order, and have been attended with no unusual expense.

The Western High Service Reservoir has continued in good order.

The rainfall on the Gunpowder supply was 43.82 inches.

The water in Loch Raven was too muddy to use for 59 days. The maximum overflow was on September 26, it then being 48 feet. On February 9, from some unexplained cause, the water was permitted to get 3.7 feet below the dam. By promptly closing the Drain Gates, it reached its normal stage during the night. The Dredge was put in commission August 22 and continued until November 30, removing 8,961 cubic yards. I deem it important for this work to be continued next year, and it should be started early in the season; but before doing so it will be necessary to thoroughly overhaul the boilers and machinery.

The Lock, Gate House and Conduit leading to Montebello continue in good order. The River Bank Farm was rented for $650.00 per annum, beginning May 1st. There has only been $245.00 of the rent paid, which leaves a balance of $80.00 still due for the first six months' rent. Realized from the sale of corn, hay, rye, straw and rent, $1,111.49.

Lake Montebello remains in its usual good condition. The Gate House has been painted. Realized from the sale of hay, $301 32.

Lake Clifton—The Gate House and Vault are in good condition. Just after the forty-eight-inch suction main was charged there were two or three leaks in the line between the Vault and Gate House. These were repaired and there has been no further trouble, all the pipe lines leading from the Gate House now being in good condition. The stable, which

it became necessary to build, having received notice from the Park Board to remove the old shed formerly used, was completed in March. Realized from the sale of grass, $3.00.

Guilford Reservoir—The Vault and grounds are in good condition, the Dwelling, fountain and fencing have been painted.

The Mount Royal Reservoir has continued in good order and has been attended with no unusual expense except for painting Dwelling and Vault.

The Dwelling and Trouble Station at W. Arlington Standpipe have been completed and a keeper appointed who will take charge January 1st, 1900.

For detailed statement of rainfall, flow of streams, waste, consumption, etc., see accompanying tables.

Respectfully submitted,

WM. BENTHALL,

Engineer and Superintendent County Division.

BALTIMORE CITY WATER DEPARTMENT.

TABLE OF RAINFALL IN INCHES.

1899.	Jones' Falls Supply.			Gunpowder Supply.					
	Lake Roland.	Hampden Reservoir.	Druid Lake.	W. H. Ser. Reservoir.	Mt. Royal Reservoir.	Loch Raven	Lake Montebello.	Lake Clifton.	Guilford Reservoir.
January.....	2.55	3.34	2.95	2.68	3.60	2.90	4.05	3.26	3.20
February... .	6.35	6.26	5.45	5.45	5.40	6.25	6.16	5.16	8.10
March.....	5.18	5.49	5.37	5.37	5.35	5.34	4.96	5.43	5.23
April.....	2.80	2.08	2.00	2.00	1.92	2.21	1.96	1.98	2.00
May.....	3.63	4.10	3.97	4.03	5.27	2.94	4.15	4.29	5.00
June.....	1.95	2.34	1.97	2.15	1.87	2.30	2.15	2.13	2.30
July.....	1.72	2.09	2.24	2.16	2.48	2.85	2.12	2.75	2.10
August.....	4.32	3.53	3.89	3.71	4.15	3.87	3.72	4.41	3.40
September..	8.28	8.50	7.93	8.21	7.76	6.94	7.24	7.55	7.60
October.....	3.27	4.20	3.90	4.05	3.41	3.28	3.76	4.18	2.30
November...	1.67	1.91	1.57	1.74	1.38	1.84	1.64	1.48	1.70
December...	1.87	1.49	1.53	2.51	1.44	2.22	1.38	1.28	1.80
Totals.....	43.59	45.33	42.77	44.06	44.03	42.94	43.29	43.90	44.73

STATEMENT E.

RECEIPTS OF THE WATER DEPARTMENT FOR THE YEAR 1899.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Water rents 1899	$37,526 95	$168,812 82	$59,383 29	$19,429 70	$16,788 39	$21,111 82	$11,398 72	$8,632 10	$9,896 54	$10,657 68	$11,023 92	$36,812 60	$411,474 53
" 1898	30,207 48	15,310 22	17,006 22	14,591 47	27,037 66	55,470 84	21,927 02	3,842 00	5,071 54	1,274 28	900 49	883 99	193,523 21
" 1897	575 92	333 08	387 92	257 76	469 28	976 06	839 73	434 50	365 99	163 25	257 77	243 25	5,304 51
" 1896	39 25	81 00	108 50	75 50	81 00	213 08	108 25	50 00	53 00	32 00	50 17	54 83	946 58
Meter rents	47,027 09	2,380 34	1,518 94	41,562 12	1,506 15	3,873 02	46,599 13	1,348 41	184 50	55,314 46	2,630 05	2,900 71	206,844 92
Plumbing Department	2,620 96	1,392 67	4,896 95	6,722 27	4,583 17	4,624 25	10,141 36	6,623 28	5,429 33	3, 92 88	2,725 71	3,375 15	56,627 98
Meter plumbing									442 74	3,044 35	6,480 66	1,135 21	11,102 96
Interest on back water rents	180 94	166 11	300 86	318 80	778 03	1,986 78	859 54	201 34	274 27	88 67	84 58	90 53	5,330 45
Turn-offs							1,122 00	154 00	347 00	61 00	49 00	50 00	1,783 00
Lake Roland	139 20	39 30	147 38	137 07	43 59	29 75	51 43	38 99	154 03	128 91	97 72	198 19	1,205 56
Loch Raven	84 66	25 00	199 45	45 29	14 00	22 00	20 00	14 00	14 00	14 00	171 27	504 54	1,128 21
Vacancies and turn-offs	109 00	104 00	71 00	29 00	82 00	520 00							915 00
Lake Montebello		15 00	78 00	25 00	65 85	32 47		15 00	47 00	18 00	5 00		301 32
Vacancies							34 00	13 00	12 00	13 00	58 00	108 00	238 00
Gay-street yard	1 10	106 25	60 42								1 00	21 30	190 07
Extension of water supply	4 59		6 77	3 53	12 39	15 85		31 98		6 99		9 09	91 19
Meter supplies	75 00												75 00
Western Pumping Station			1 25									50 00	51 25
Registrar's Department						22 50							22 50
Repairs			3 74		5 62					6 37			15 73
General stores—Mechanical Division					15 46								15 46
Lake Clifton							3 00						3 00
Current expenses							2 50						2 50
Eastern Pumping Station			1 25										1 25
													$897,194 18
1945 3½ per cent. stock sold												$370,000 00	
Interest on deposits												4,204 16	
													374,204 16
													$1,271,398 34

STATEMENT F.

DISBURSEMENTS OF THE WATER DEPARTMENT FOR THE YEAR 1899.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Extension of water supply	$21,488 94	$63,396 00	$15,758 56	$22,361 84	$31,504 71	$32,124 94	$27,407 41	$39,962 89	$20,708 98	$21,688 52	$50,964 97	$34,723 24	$382,091 00
Commissioners of Finance												150,000 00	150,000 00
Repairs	4,811 72	2,832 61	3,654 49	6,437 58	5,451 08	5,394 64	4,571 36	5,705 95	6,966 80	5,275 53	4,937 84	6,007 44	62,047 04
Miscellaneous	3,675 49	3,630 59	3,700 06	3,443 61	3,318 41	2,940 25	2,040 91	2,439 17	2,644 71	2,285 50	2,008 38	2,592 53	34,719 61
Registrar's Department	48 00	2,876 29	2,876 29	2,984 29	3,193 29	2,843 29	2,837 29	2,897 11	2,820 47	2,763 63	2,710 63	5,316 26	34,166 84
Meter supplies	17,533 78	991 01	1,409 79	1,201 32	807 25	1,523 86	2,221 10	1,360 29	1,533 77	1,475 33	1,714 45	1,728 82	33,500 77
Service connections	1,518 51	822 20	1,741 03	2,220 00	2,485 94	2,951 65	3,430 29	2,863 27	4,452 62	3,209 47	2,547 09	2,383 75	30,625 82
Lake Roland	186 89	205 71	108 29	232 08	4,614 19	5,363 70	5,285 17	3,581 39	3,431 56	1,146 26	520 85	3,877 73	28,553 82
General stores—Mechanical Division	1,571 49	3,088 81	2,131 45	2,038 55	2,139 74	3,144 21	2,977 43	1,046 64	1,317 68	1,834 59	1,709 99	1,841 85	24,842 43
General stores—Construction Division	494 20	1,428 60	910 81	1,161 57	1,189 50	1,892 11	2,021 27	2,740 20	3,818 73	1,438 73	2,313 58	1,359 18	20,768 48
Eastern Pumping Station	1,964 76	1,908 30	2,666 77	1,797 14	1,713 83	2,008 47	1,437 00	1,441 19	1,375 52	1,358 39	1,339 15	1,529 08	20,539 60
Loch Raven	671 79	6,470 22	1,257 30	1,203 70	742 08	943 55	839 66	1,012 38	938 85	1,558 74	1,439 25	1,251 62	18,329 14
Western Pumping Station	1,086 62	1,411 76	1,336 99	3,287 12	927 96	1,385 13	1,151 51	990 36	1,355 91	978 37	848 85	1,433 17	16,193 75
Engineering Division	991 41	967 09	863 32	840 44	904 71	830 48	872 58	810 50	757 73	876 92	759 47	754 41	10,229 06
Meter Division		119 01	900 73	786 39	996 40	866 62	191 78	1,838 30	589 13	1,179 77	1,256 54	1,159 89	9,884 56
Machine shop	674 53	525 29	477 24	515 23	601 57	665 32	562 48	426 74	403 99	354 88	670 18	539 05	6,416 50
Water shed patrol	374 05	334 00	433 63	375 56	387 10	442 83	384 40	392 10	520 69	384 20	403 20	505 60	4,937 36
Lake Montebello	318 28	272 46	242 01	277 34	329 75	349 45	392 31	363 85	500 91	694 27	368 37	239 36	4,348 36
Gay-street yard	382 26	412 58	304 94	299 24	210 86	276 14	244 04	199 21	1,113 72	285 30	227 28	298 57	4,254 14
Mt. Royal Pumping Station	9 00	27 91	3 94	5 63	24 54		1 34	68 27			1,434 58	2,535 98	4,111 19
Current expenses	540 52	491 55	261 45	196 00	240 36	123 70	181 72	335 81	484 15	199 11	237 49	464 07	3,755 93
Lake Clifton	498 88	307 35	152 08	265 67	186 31	205 78	154 80	163 91	165 90	166 16	238 70	169 65	2,675 19
Returned money	76 50	101 25	612 01	398 75	141 94	89 73	58 81	12 03	141 23	79 19	251 49	47 77	2,010 70
Druid Lake	371 72	72 83	67 83	109 18	186 91	132 71	133 19	213 71	101 96	108 81	93 26	71 66	1,663 77
Printing and stationery	201 60	314 64	96 26	173 09	39 73	101 79	18 50		19 72	395 35	71 65	164 07	1,596 40
Auditing Division	335 81	77 25	151 71	160 80	188 30	114 38	14 56	60 16	74 25	91 22	128 57	105 09	1,502 10
Guilford Reservoir	64 12	61 99	71 60	83 36	66 71	65 40	98 50	156 99	272 57	72 98	79 73	61 99	1,155 94
Hampden "	65 66	44 49	49 58	87 01	58 49	140 71	97 05	236 21	82 87	85 56	101 24	68 62	1,117 49
Mt. Royal "	57 66	58 66	57 66	79 01	68 86	82 82	85 12	208 05	87 98	40 00	53 06	28 47	907 35
High service "	28 66	30 84	28 66	28 66	31 99	39 16	60 78	28 66	64 70	73 09	38 96	31 16	485 32
Lake Clifton yard	82 70	40 24	217 66	66 86	10 83	1 71	27 46	4 23	5 77	2 05		15	459 66
Jones' Falls conduit	12 00	2 00	2 30	11 00	2 00	63 16	66 40	57 16	27 15	2 00	28 04	28 66	301 87
West Arlington standpipe		17 50	2 50	94			1 34					10 65	32 93
	$60,137 55	$93,341 03	$42,548 94	$53,128 96	$62,765 34	$67,107 69	$59,867 56	$71,616 73	$56,780 02	$50,103 92	$79,496 84	$221,329 54	$918,224 12

Twelve months interest on $6,500,000—water stock	$310,000 00	
Interest on 1945 water stock	56,000 00	
		366,000 00
Total disbursements for the year		$1,284,224 12

STATEMENT G.

COMPARATIVE STATEMENTS OF RECEIPTS FOR THE YEARS 1897, 1898 and 1899.

1897.		1898.		1899.	
1897 water rents	$426,566 77	1898 water rents	$425,701 28	1899 water rents	$426,506 22
1896 "	153,329 99	1897 "	183,154 80	1898 "	193,523 21
1895 "	5,354 33	1896 "	5,489 21	1897 "	5,304 51
1894 "	1,983 20	1895 "	2,184 17	1896 "	946 58
Meter rents	181,495 91	Meter rents	181,461 94	Meter rents	206,844 92
	$768,730 20		$797,991 40		$833,125 44
Less discount on 1897 water rents	15,303 33	Less discount on 1898 water rents	15,030 50	Less discount on 1899 water rents	15,031 69
	$753,426 87		$782,960 90		$818,093 75
Interest on back water rents	3,060 72	Interest on back water rents	3,518 95	Interest on back water rents	5,330 45
Plumbing bills	39,357 19	Plumbing bills	42,189 83	Plumbing Department	56,627 98
Distributing mains	2,210 38	Gay-street yard	1,801 63	Meter plumbing	11,102 96
Lake Montebello	177 20	Lake Roland	1,025 40	Turn-offs (July 1 to December 31)	1,783 00
Loch Raven	219 95	Loch Raven	304 39	Lake Roland	1,205 56
Lake Roland	1,033 91	Lake Montebello	174 00	Lock Raven	1,128 21
Eastern Pumping Station	102 89	Extension of water supply	97 00	Vacancies and turn-offs (Jan. 1 to June 30).	915 00
Lake Clifton	8 50	Tools and fixtures	37 84	Lake Montebello	301 32
Pumps and fountains	1 25	Eastern Pumping Station	19 45	Vacancies (July 1 to December 31)	238 00
Repairs	5 33	Jones' Falls conduit	20 00	Gay-street yard	190 07
Fire plugs	1 50	General stores—Mechanical Division	7 91	Extension of water supply	91 19
Extension of water supply	378 51	Distributing main	4 44	Meter supplies	75 00
Profit and loss	516 67	Lake Clifton	2 00	Western Pumping Station	51 25
	$800,500 87	General stores—Construction Division	2 09	Registrar's Department	22 50
		Repairs	1 67	Repairs	15 73
Water tax $ 206 29		Water tax $ 66 16		General stores—Mechanical Division	15 46
1945 3½ per cent. Stock sold 685,400 00		1945 3½ per cent. Stock sold 732,000 00		Lake Clifton	3 00
Interest on deposits 3,183 71		Interest on deposits 5,719 36		Current expenses	2 50
	688,790 00		737,785 52	Eastern Pumping Station	1 25
				1945 3½ per cent. stock sold $370,000 00	
				Interest on deposits 4,204 16	
					374,204 16
	$1,489,290 87		$1,569,953 02		$1,271,398 34

LENGTH AND COST OF NEW MAINS COMPLETED IN 1899.

LAYING PIPE.

MATERIALS.

Diameter, Inches.	STRAIGHT PIPE. Feet.	STRAIGHT PIPE. Cost.	LARGE FITTINGS. Cost.	SMALL FITTINGS. Cost.	SPECIAL CASTINGS. Cost	VALVES. Number.	VALVES. Cost.	HYDRANTS. Number.	HYDRANTS. Cost.	LEAD. Cost.	ROPE. Cost.	FUEL. Cost.	LUMBER. Cost.	BRICKS. Cost.	CEMENT. Cost.	MISCELLANEOUS. Cost.
3″	2,801	$330 04		72 73	39 85	28	$118 00			$101 66	$2 41	$11 38	$2 76			
4″	4,424	702 05		171 02	66 70	41	266 27			210 52	3 95	20 62	2 25			
6″	16,028	13,150 81	42 95	1,548 77	431 68	251	2,446 48	26	$729 25	2,134 13	32 99	143 99	32 49		1 05	$16 37
10″	8,774	5,581 17	79 87	545 49	120 46	49	699 76	3	89 62	762 70	7 36	50 45	59 03	$1 46	1 46	14 60
12″	9,750	7,478 48	529 59	85 47	51 71	23	538 51	10	296 67	836 08	9 44	28 99	121 31	4 56	5 30	4 00
16″	130	184 89	24 57			1	9 50			20 00	50	88				
20″	11,678	20,663 85	1,122 79	254 93	255 04	59	1,503 13	9	256 48	1,844 45	33 83	88 98	366 13	29 77	44 17	33 22
24″	968	2,871 67	151 16	13 25	38 37	4	569 86	2	55 62	259 32	4 19	8 10	19 60	3 25		1 38
30″	1,348	13,102 51	35 02	63		1	287 30			552 56	9 02	28 80	170 60			36 31
36″	1,096	1,170 04	507 78	7 40		1	466 95			401 12	3 80	9 18	90 80	106 50		
48″	12,988	95,242 72	2,179 84	58 64	83 24	21	1,768 18	3	106 78	6,530 51	65 69	281 20	2,895 03	471 73	503 32	1,178 08
Total.	102,997	$163,071 13	$4,673 87	$2,761 33	$1,090 05	470	$8,605 00	53	$1,534 42	$13,663 05	$173 18	$672 57	$3,780 00	$617 27	$555 30	$1,283 96

LABOR.

Diameter, Inches.	LABOR. Cost.	HAULING. Cost.	TOTAL COST LAYING PIPE.
3″	$675 66	$129 85	$1,493 10
4″	1,110 22	255 12	2,901 72
6″	10,030 33	1,700 96	32,442 25
10″	3,961 32	654 78	12,649 83
12″	5,043 15	692 40	15,738 66
16″	67 35	10 00	317 69
20″	12,423 34	2,393 28	40,743 39
24″	1,932 60	298 59	6,230 26
30″	5,745 85	1,239 79	21,556 39
36″	3,572 11	598 69	10,234 97
48″	32,217 95	8,101 43	151,624 34
Total.	$76,779 88	$16074 89	$295,935 90

PAVING.

MATERIALS.

Diameter, Inches.	BRICKS. Cost.	STONE. Cost.	SAND Cost.	ASPHALT. Cost.
3″			$1 13	
4″				
6″		42 31	17 20	$231 89
10″		7 50	8 67	
12″		20	11 50	
16″				
20″		49 52	18 88	
24″				
30″				174 72
36″				
48″	$18 94	220 15	31 07	74 01
Total.	$18 94	$325 30	$90 42	$480 62

LABOR.

Diameter, Inches.	LABOR. Cost.	HAULING. Cost.	TOTAL COST PAVING.	NUMBER SQUARE FEET PAVING.	COST OF PAVING PER SQUARE FOOT.	CAR FARE.	TOTAL COST FOR YEAR.	AVERAGE COST PER LINEAR FOOT AS LAID
3″	$127 39	$51 75	$180 27	8,115	.02$_{+}$	$1 60	$1,675 27	59
4″	196 00	70 20	273 79	12,959	.02$_{+}$	3 70	3,179 21	.71 6
6″	1,498 17	636 82	2,446 39	117,739	.02$_{+}$	26 90	34,915 54	75 "
10″	426 51	184 50	627 18	26,731	.02$_{+}$	4 85	13,281 86	1 51
12″	177 56	277 05	766 31	32,031	.02$_{+}$	11 60	16,516 57	1.69
16″	3 75	5 62	9 40	550	.01$_{+}$	1 00	326 09	2 43
20″	753 20	319 35	1,140 95	38,830	.02$_{+}$	15 05	11,092 36	3.58
24″	56 22	19 72	75 94	3,188	.02$_{+}$	1 75	6,309 95	6 53
30″								
36″								
48″	1,978 03	986 05	3,308 25	156,055	.02$_{+}$	23 05	154,955 04	11 93
Total.	$5,698 76	$2,664 66	$9,278 70	410,059	.02$_{+}$	$103 25	$305,317 85	

MAIN CONNECTIONS IN 1899.

CLASS	DIAMETER.	LENGTH, FEET	MATERIAL AND LABOR.																		PAVING.							CAR FARE.	TOTAL COST OF CONNECT'N.
			STRAIGHT PIPE.	LARGE FITTINGS.	SMALL FITTINGS.	SPECIAL FITTINGS.	VALVES.		HYDRANTS.		LEAD.	ROPE.	FUEL.	LUMBER.	BRICKS.	CEMENT.	LABOR.	HAULING.	MISCEL'S.	TOTAL COST MATERIAL AND LABOR.	STONE.	SAND.	ASPHALT.	LABOR.	HAULING.	TOTAL COST PAVING.	SQ. FEET OF PAVING.		
			Cost.	Cost	Cost.	Cost.	No.	Cost.	No.	Cost.	Cost.	Cost.	Cost.	Cost.	Cost.	Cost.	Cost.	Cost.	Cost.		Cost.	Cost.	Cost.	Cost.	Cost.				
....	4	121	$21 27		$17 61	$6 96	4	$15 33			$14 48	40	1 88			20	$63 26	$17 01		$188 40				$0 28	$1 95	$8 23	420		$196 93
	6	280	79 90		16 01	9 33	4	22 04			15 56	76	1 46	24			100 26	39 67		285 23			64 32	5 31	1 85	71 48	650	20	356 91
	10	86	73 80	12 08	191 33	46 82	22	470 26			37 55	1 70	30				506 29	60 55		1,400 68				34 72	15 30	50 02	2,280		1,450 70
	3	110																											
	16	35	64 40	59 57	2 88	16 52	3	184 75			21 06	97	1 49	3 92	3 50	1 90	191 28	42 57		594 81	18	1 17		9 36	1 05	14 76	640	1 75	611 32
	20	153																											
	6	49	324 53	104 74	75 29	341 97	17	317 37			68 88	3 07	1 06			8 35	971 11	43 83	80	2,261 00				19 49	8 80	28 29	850	60	2,289 89
	4	12																											
	24	32	91 93			24	1	415 00			42 92	12	2 70		3 95	8 25	275 70	69 61	3 60	914 02				6 09	3 75	9 84	374	60	924 46
	30	37	141 62	75 27	5 80	7 60	2	651 90			79 80	64	9 39	14 47	11 37	13 80	658 06	126 31	1 30	1,797 33	1 04	1 80		2 15	75	5 74	125	2 30	1,805 37
	40	49 6																											
		4 4	28 48	39 47	12 87	7 49	10	818 43	2	70 00	72 50	1 34	15 79	71 36	13 00	21 88	1,592 83	227 10	2 56	2 95 30	2 25	2 10		80	45	5 60	108	3 90	3,004 80
		3 46																											
Total....	....	974	$825 93	$291 13	$321 79	$136 93	63	$2,925 08	2	$70 00	$352 75	$9 20	$34 07	$89 99	$31 82	$54 38	$4,358 79	$626 65	$8 26	$10,436 77	$3 47	$5 07	$64 32	$84 20	$36 90	$193 96	5,447	$9 35	$10,640 08

		STRAIGHT PIPE			LARGE FITTINGS		SMALL FITTINGS		SPECIAL CASTINGS		
Class.	Diameter, Inches	Feet	Weight, Lbs.	Cost	Weight, Lbs.	Cost	Weight, Lbs.	Cost	Weight, Lbs.	Cost	Number
	3	[illegible]		$150.04				$[illegible]		$[illegible]	
	4	4,124		[illegible]				[illegible]		[illegible]	[illegible]
	6	[illegible]		13,180.84		$12.60		[illegible]		[illegible]	
	6										
	8										
	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
	[illegible]										
	12	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
	16	36		[illegible]		[illegible]					
	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
	24	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]			[illegible]
	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]			[illegible]
	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
Tot.		[illegible]		$[illegible]		$[illegible]		$[illegible]		$[illegible]	[illegible]

LENGTH A

LAYING PIPE

MATERIALS

…PS	CLEANOUTS		[illegible]		LEAD		[illegible]		[illegible]	LUM…
Cost	Number	Cost	Number	Cost	Weight Lbs.	Cost	Weight Lbs.	Cost	Cost	Feet, B. M.
[illegible]						[illegible]		$2 11	[illegible]	
[illegible]						[illegible]		[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				[illegible]		[illegible]	[illegible]	
[illegible]		[illegible]				[illegible]		36	[illegible]	
	[illegible]	[illegible]				[illegible]		[illegible]	[illegible]	
[illegible]						[illegible]		[illegible]	[illegible]	
[illegible]		[illegible]				[illegible]		[illegible]	[illegible]	
[illegible]		[illegible]				[illegible]		[illegible]	[illegible]	
[illegible]						[illegible]		[illegible]	28 50	....
[illegible]						[illegible]		[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				[illegible]		[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				[illegible]		[illegible]	[illegible]	

ND COST OF NEW MAINS LAID IN 1899.

EES	BRICKS		CEMENT		MISCELLANEOUS	LABOR			BRICKS	
						LABOR	HAULING	TOTAL COST LAYING PIPE		
Cost	Number	Cost	Number Bbls	Cost	Cost	Cost	Cost		Number	Cost
$2 76						$675 66	$120 55	$1,403 40		
2 28						1 110 22	255 12	2 961 72		
32 1[illegible]				$1 05	$16 37	[illegible] 30 33	1 700 9[illegible]	32,442 25		
7[illegible] 05		$1 46		1 46	11 60	961 32	654 75	12,649 53		
121 31		4 56		5 30	4 [illegible]	943 15	692 40	15 738 06		
						67 35	10 00	317 69		
366 13		29 77		44 17	33 22	12 423 34	2,393 28	40 743 36		
17 60		3 28			1 38	923 60	2,5[illegible] 5[illegible]	6,23[illegible] 2[illegible]		
170 60					36 31	748 55	1,239 79	21 550 3[illegible]		
90 80		106 50				572 11	598 09	10,234 67		
2 808 [illegible]3		471 73		500 32	1 178 08	32 217 98	8 [illegible] 43	151 624 34		$18 41
$3,[illegible] [illegible]0		$617 27		$555 30	$1 283 96	$70 779 88	$16,[illegible]74 89	$295 935 9[illegible]		$18 41

PAVING.

MATERIALS						LABOR		TOTAL COST PAVING	NUMBER SQUARE FEET PAVING	COST OF PAVING PER SQUARE FOOT	[illegible] PART	TOTAL COST PER EACH [illegible]
STONE		SAND		ASPHALT		LABOR	HAULING					
Number Perch	Cost	Number Cub. Yds.	Cost.	Number Sq. Yds.	Cost	Cost	Cost					
			[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	[illegible]		[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
	[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	[illegible]		[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
	[illegible]		[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
						[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	[illegible]		[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
						[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
					[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
	[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
	[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

TOTAL LENGTH LAID DURING YEAR	TOTAL COST FOR YEAR	AVERAGE COST PER LINEAR FOOT AS LAID
	$ [illegible]	$ [illegible]
	[illegible]	[illegible]
	[illegible]	[illegible]
		[illegible]
	[illegible]	[illegible]
		[illegible]
	[illegible]	[illegible]
	[illegible]	[illegible]
	[illegible]	[illegible]
	[illegible]	[illegible]
	[illegible]	[illegible]
	$ [illegible]	

CLASS	DIAM	LENGTH	STRAIGHT PIPE		LARGE FITTINGS		SMALL FITTINGS		SPECIAL FITTINGS		VALVES	
	Inches	Feet	Lbs.	Cost	Lbs.	Cost	Lbs.	Cost	Lbs.	Cost.	Number.	Cost.
	1	121		[illegible]				$17 61		$6 96	1	$15 33
	6	280		[illegible]				16 01		9 33	1	22 [illegible]
	[illegible]	86		[illegible]		$12 08		191 33		16 82	22	170 26
	3	110										
	16	5		64 40		[illegible]		2 88		16 52	3	181 75
	20	[illegible]										
	6	40		321		104 74		75 20		311 07	17	317 37
	1	12										
	21	[illegible]		[illegible]						21	1	115 00
	30	37		[illegible]		[illegible]		[illegible]		[illegible] 60	2	651 00
		[illegible]										
	16	[illegible]		[illegible]		[illegible]		[illegible]		40	10	818 13
		[illegible]										
[illegible]		[illegible]		[illegible]		[illegible]		$321 [illegible]		[illegible]	[illegible]	[illegible]

MAIN CONNECTIONS IN 1899.

MATERIAL AND LABOR.

Hydrants.		Fountain.		Lead.		Rope.		Fuel.	Lumber.		Bricks.	
Number.	Cost.	Number.	Cost.	Lbs.	Cost.	Lbs.	Cost.	Cost.	Ft., B. M.	Cost.	Number.	Cost.
					$14 48		40	$1 88				
					15 56		76	1 46		24		
					37 55		$1 70	30				
					21 06		97	1 49		$3 92		$3 50
					68 88		3 07	1 06				
					42 92		12	2 70				3 95
					79 80		64	9 39		14 47		11 37
2	$70 00				72 50		1 54	15 79		71 36		13 00
2	$70 00				$352 75		$9 20	$34 07		$89 99		$31 82

CEMENT.		LABOR.	HAULI'G.	MISCELLANEOUS.	TOTAL COST MATERIAL AND LABOR.	BRICKS		STONE		SAND
No. Bbls.	Cost.	Cost.	Cost.	Cost.		Number	Cost.	Number Perch	Cost.	Number Cub. Yds.
	20	$63 26	$17 01		$188 40					
		100 26	39 67		285 23					
		506 29	60 55		1,400 68					
	$1 90	191 28	42 57		594 81				18	
	8 35	971 11	43 83	80	2,261 00					
	8 25	275 70	69 61	$3 60	914 02					
	13 80	658 06	126 31	1 30	1,797 33				$ 04	
	21 88	1,592 83	227 10	2 56	2,995 30				25	
	$54 38	$4,358 79	$626 65	$8 26	$10,436 77				$ 47	

PAVING

	Asphalt.		Labor	[illegible]	Total Cost of Paving	Sq. Ft. of Paving	Car Fare	Total Cost of Connection
Cost.	Number Sq Yds	Cost	Cost	Cost				
			$[illegible]	[illegible]	[illegible]	[illegible]		$[illegible]
		$[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
			[illegible]	[illegible]	[illegible]	[illegible]		1 45[illegible]
$1 17			[illegible]	1 08	[illegible]	[illegible]	$1 [illegible]	[illegible]
			[illegible] 10	[illegible]	[illegible]	[illegible]	60	[illegible]
			6 09	3 75	[illegible]	374	[illegible]	[illegible]
1 80			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]			[illegible]	15	[illegible]	[illegible]	[illegible]	[illegible]
$[illegible]		$[illegible]	$[illegible]	6 90	$[illegible]	[illegible]	[illegible]	[illegible]

COST OF METERED SUPPLIES INSERTED IN 1899.

MATERIALS AND LABOR.

Month	Meters: Total No Meters	Meters: No. of Each Size: 6	5	4	3	2½	2	1½	1	Meters: Total Tonnage	Meters: Total cost Meters	C. I. Pipe: No.	C. I. Pipe: Cost	C. I. Pipe: Wgt Lbs.	C. I. Fittings: Cost	C. I. Fittings: Wgt Lbs.	W. I. Fittings: Cost	W. I. Fittings: Wgt Lbs.	Brass Fittings: Cost	Valves: No.	Valves: Cost	Brass Stops: No.	Brass Stops: Cost	Stop Boxes: No.	Stop Boxes: Cost	Lead: Wgt Lbs	Lead: Cost	Rope: Wgt Lbs.	Rope: Cost	Fuel: Cost	Labor: Cost	Hauling: Cost	Total Cost Materials and Labor.
January				7	3	7	4	3	1	18	$ 903 [illegible]	10	$10 50		$21 60		$22 98		$18 54	$73 25	12	$43 57			6	$2 40		$10 55	$ 29	$3 55	$162 69	$37 91	$1,308 36
February				2	3		1	1	3	10	884 [illegible]	3	3 00		9 89		8 98		13 43	57 05	2	4 17			2	40		3 00	10	1 06	74 61	15 81	1,068 27
March				6	2	3	8	4	3	30	1,818 60	6	6 00		47 05		19 54		20 98	111 17	8	28 10			1	4 78		6 76	26	2 25	203 14	25 39	2,324 32
April				10	9		6	1	2	28	2,509 00	10	13 40		50 21		13 06		19 74	172 94	13	37 10			9	12 13		12 40	56	2 40	215 38	29 70	3,148 02
May		31		6	7	3	1	2	2	52	1,320 00	13	10 00		17 33		4 95		40 04	71 50	10	8 23			4	5 32		3 68	07	34	151 82	31 12	1,663 50
June	2	1	2	2		2	28	9	36	5,129 00		13	33 87		30 39		39 68		177 03	407 20	5	16 23			3	4 32		26 88	1 13	4 08	310 43	37 53	6,217 77
July		26	4	3	2	3	18	4	58	2,814 00		19	32 61		118 13		36 82		110 52	268 55	10	27 15			6	7 08		25 80	1 04	2 32	348 42	52 52	3,789 99
August		1	11	9	8	2	10	3	41	2,489 80		14	23 80		71 88		14 27		49 05	167 20	22	96 70			15	12 55		26 64	68	2 96	309 57	57 18	3,292 98
September			6	1		1	7	3	22	1,585		6	10 50		53 07		29 11		55 82	70 64	7	26 48			6	1 60		19 72	46	1 69	160 61	33 81	2,018 31
October		1	3	3		2	9	2	20	1,151 00		6	12 50		14 88		5 06		59 48	69 79	3	10 38			1	12		4 08	15	89	110 48	24 74	1,766 58
November		31		5	4	3	12	1	56	2,391 00		15	48 09		45 78		33 70		97 03	121 70	8	30 63			6	72		16 00	56	2 95	297 15	52 88	3,238 19
December		4					9	2	15	1,294 00		1	8 00		20 28		24 24		55 82	70 02	3	17 26			2	27		9 60	46	1 06	141 00	20 95	1,663 46
Total		5	95	88	87	28	73	101	35	402	$24,196 00		$212 30		$481 39		$301 43		$765 30	$1,601 06	103	$346 30			64	$51 78		$165 11	$5 79	$25 55	$2,484 73	$419 54	$31,489 75

PAVING.

Month	Bricks: No.	Bricks: Cost	Stone: No Perches	Stone: Cost	Sand: No Cu Yds	Sand: Cost	Asphalt: No Sq Yds	Asphalt: Cost	Labor	Hauling	Total Cost of Paving.	Total No of Sq Yds of Paving	Cost per Sq Yd	Cost per Lin Ft	Total Cost of Con. Div
January							10		$6 11	$1 [illegible]	$7 91	240	[illegible]	$ 60	$1,316 87
February							18		1 12	[illegible]	2 11	100	2 11		213 01
March									27	15	42	10	4 20	10	428 14
April									3 79	1 09	4 88	180	2 71	1 28	1,411 46
May									8 23	2 50	10 73	380	2 82	1 48	6,[illegible] 28
June									3 72	1 20	4 92	720	6 83	[illegible]	9,222 19
July									1 20	1 13	2 33	1,100	2 12	1 13	3,201 67
August									5 72	1 72	7 44	850	8 75	1 [illegible]	6,[illegible] 8
September									10 19	1 18	11 37	311	3 65	2 [illegible]	3,536 18
October									3 51	1 [illegible]	5 01	287	4 [illegible]	2 [illegible]	1,[illegible] 19
November									1 05	[illegible]	1 [illegible]	282	[illegible]	[illegible]	[illegible] 18
December							35		5 08	[illegible]	7 45	178	11 [illegible]		1,[illegible]93
Total		81					90		$61 21	$22 [illegible]	$87 72	1000	[illegible]	[illegible]	$31,[illegible] 15

Month	Hydrants: Number of Each Size		Hydrants: Total	Hydrants: Cost	Fountains: [illegible]	Fountains: [illegible]	Fountains: Total	Fountains: Cost	Valves: Number Each Size						Valves: Total	Valves: Cost
	4"	6"							2	[illegible]	4	6	8	12		
January	3	15	18	$ [illegible]					2	[illegible]	[illegible]	1			[illegible]	[illegible]
February	3	1	4	91 [illegible]						1	[illegible]				1	[illegible]
March		8	8	[illegible]						1		1			[illegible]	[illegible]
April		[illegible]	13	[illegible]					2	1	4	1			[illegible]	[illegible]
May	[illegible]	21	[illegible]	[illegible]							10	1			[illegible]	[illegible]
June	2	9	11	[illegible]							[illegible]	1			12	[illegible]
July	6	11	17	[illegible]						[illegible]	[illegible]	[illegible]			[illegible]	[illegible]
August			9	24 [illegible]		1	1	[illegible]		1		1		1	[illegible]	[illegible]
September	1	1	2	[illegible]						2	2	[illegible]	1		[illegible]	[illegible]
October		1	1	[illegible]						1		1			2	[illegible]
November		1	1	[illegible]	1		1	[illegible]							1	[illegible]
December		1	1	[illegible]												
Total	[illegible]	[illegible]	[illegible]	$ [illegible]	1		2	[illegible]	3	11	[illegible]	[illegible]	1	1	121	$ [illegible]

COST OF HYDRANTS, FOUNTAINS AND VA

MATERIALS AND LABOR

	C. I. Pipe		C. I. Fittings		Spec. Castings		Lead		Rope		Fuel	Labor
	Wgt		Wgt		Wgt		Wgt		Wgt			
Cost		Cost		Cost		Cost		Cost		Cost	Cost	Cost
	Lbs		Lbs		Lbs		Lbs		Lbs			
$[illegible]		$[illegible]		$[illegible]		$[illegible]		$[illegible]		$3 36	$18 92	$[illegible]
[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		23	3 02	[illegible]
1 13		[illegible]		[illegible]				[illegible]		22	[illegible]	40 65
[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]
[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		3 12	[illegible]	[illegible]
[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		1 50	[illegible]	[illegible]
[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	334 55
[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]
[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]
[illegible]		[illegible]		[illegible]		[illegible]		12		[illegible]	[illegible]	[illegible]
9 50		[illegible]		[illegible]		1 21		11		[illegible]	[illegible]	[illegible]
		[illegible]		[illegible]				[illegible]		[illegible]	74	24 50
[illegible]		$[illegible]		$[illegible]		$162 63		$[illegible]		$14 71	$[illegible]	$2,313 42

LVES INSERTED IN 1899

HAULING	TOTAL COST MATE'L & LABOR			PAVING								
				BRICKS		STONE		SAND		ASPHALT		LABOR
Cost	Hydrants	Valves	Fountains	Number	Cost	No. Perches	Cost	No. Cu. Yd.	Cost	No. Sq. Yd.	Cost	Cost
$14[illegible] 53	$1,[illegible]	$2[illegible] 35							[illegible]			$1[illegible]
[illegible]	23[illegible]	[illegible]										[illegible]
[illegible]	[illegible]	[illegible]										[illegible]
[illegible]	[illegible] 55	[illegible]										[illegible]
[illegible]	1,821 [illegible]								[illegible]			1[illegible]
[illegible]	[illegible]											[illegible]
[illegible] 87	1,14[illegible]											[illegible]
91 03	[illegible]	[illegible]	[illegible]						[illegible]			[illegible]
[illegible]	2[illegible]	151 65										[illegible]
[illegible]	[illegible]	[illegible]	[illegible]									[illegible]
[illegible]	[illegible]		[illegible]									[illegible]
[illegible]	13[illegible]											[illegible]
$657 [illegible]	$8,[illegible]	$[illegible] 24	$2[illegible]						$1[illegible]			$1[illegible]

Appendix F

TOTAL COSTS

APPING

Cost	Total Cost of Paving	Number of Sq. Ft. Paving	Cost per Sq. Ft.	[illegible]	Hydrants	Fountains	Valves
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

COST OF SERVICE CONNECTIONS INSERTED IN 1899.

Month	No. Connection	MATERIALS AND LABOR. C. I. Pipe. Wgt. Lbs.	C. I. Pipe. Cost.	C. I. Fittings. Wgt. Lbs.	C. I. Fittings. Cost.	W. I. Fittings. Wgt. Lbs.	W. I. Fittings. Cost.	Brass Fittings. Wgt. Lbs.	Brass Fittings. Cost.	Brass Stops. No.	Brass Stops. Cost.	Stop Boxes. No.	Stop Boxes. Cost.	Lead. Wgt. Lbs.	Lead. Cost.	Rope. Wgt. Lbs.	Rope. Cost.	Fuel. Cost.	Labor. Hauling. Cost.	Labor. Cost.	Total Cost Material and Labor.	PAVING. Bricks. No.	Bricks. Cost.	Stone. No. Per.	Stone. Cost.	Sand. No. Cu. Yds.	Sand. Cost.	Asphalt. No. Sq. Yds.	Asphalt. Cost.	Labor. Hauling. Cost.	Labor. Cost.	Total Cost Paving.	No. of Sq. Ft. Paving.	Cost per Sq. Ft.	Car Fare.	Total Cost of Connections.	Total Amount Received for Connections.	Net Profit.
[illegible]	117		$205 02		$30 68		$15 09		$42 72	192	$109 08	117	$111 12		$10 68		.58	$11 05	$636 30	$134 19	$1,314 51									$70 53	$24 20	$94 73	5,888	.01 $^{1}/_{100}$	$ 20	$1,409 44	$1,163 93	
[illegible]	53		94 17		7 68		5 30		31 28	122	59 45	72	74 00					6 68	283 13	75 99	640 13									16 20	8 40	24 60	1,664	.01 $^{15}/_{100}$		664 73	576 00	
Mar[illegible]	247		384 74		19 27		16 18		186 60	269	229 04	247	240 51		7 28		.28	1 25	776 25	199 64	2,030 37							$1 50		106 72	39 90	148 12	8,822	.01 $^{1}/_{100}$	10	2,178 89	2,184 72	
[illegible]	113		720 76		6 64		32 02		316 24	537	349 66	113	411 00		1 60		.06	51	1,245 29	259 65	3,337 73							25		75 21	28 20	103 66	6,151	.01 $^{1}/_{100}$	1 00	3,412 39	4,194 56	
[illegible]	84		162 22		7 38		12 86		360 74	350	262 27	301	297 57		3 28		.15	36	982 15	257 85	2,676 83								$19 23	265 77	99 96	384 96	24,390	.01 $^{1}/_{100}$	3 20	3,064 99	2,867 94	
[illegible]	203		198 04		2 27		20 00		185 08	293	211 38	280	288 12		60		.04	22	1,045 63	245 91	2,760 32			40						134 32	45 30	180 02	11,500	.01 $^{1}/_{100}$	2 85	2,943 19	2,744 78	
[illegible]	364		634 52		19 37		13 00		530 07	368	342 11	363	390 24		6 44		.24	1 75	1,287 74	283 35	3,489 03			25					7 45	200 55	65 95	274 20	18,230	.01 $^{1}/_{100}$	3 95	3,797 18	3,629 67	
[illegible]	314		829 28		2 75		13 73		571 18	391	349 37	357	386 12		1 52		.04	16	1,153 57	257 92	3,559 94			50					176 67	152 55	56 13	385 35	13,806	.01 $^{1}/_{100}$	3 80	3,949 59	4,018 98	
[illegible]	358		681 79		17 62		11 81		616 80	362	422 25	375	355 12		22 64		.50	2 62	1,350 68	269 00	4,074 83			90					3 30	232 02	84 15	320 07	20,806	.01 $^{1}/_{100}$	5 15	4,398 66	3,968 40	
[illegible]	285		634 15		8 98		13 08		316 10	287	326 81	280	279 18		1 80		.06	41	1,045 67	238 36	3,014 80								34 17	147 86	49 15	281 18	15,001	.01 $^{1}/_{100}$	3 10	3,299 08	2,753 94	
November...	266		601 84		16		16 80		142 91	270	297 97	266	295 00						838 66	209 13	2,662 77									144 79	47 85	192 64	13,825	.01 $^{1}/_{100}$	2 35	2,857 76	2,357 03	
[illegible]	201		501 77		16 71		8 42		372 91	223	272 29	201	220 79		13 91		.26	2 68	702 32	173 29	2,285 55								88 92	72 29	25 35	186 56	8,277	.01 $^{1}/_{100}$		2,471 91	2,120 08	
	3,318		$6,520 84		$134 61		$201 61		$4,384 16	3,664	$3,259 01	3,308	$3,289 07		$69 75		$2 21	$27 68	$11,347 39	$2,604 28	$31,846 61			$3 80					$329 74	$1,668 81	$574 84	$2,577 19	148,360	.01 $^{1}/_{100}$	$24 00	$34,447 80	$32,528 53	

COST OF REPAIRS TO MAINS IN 1899.

MONTH.	NUMBER LEAKS.	NUMBER BREAKS.	FERRULES.	HOLES PLUGGED.	MATERIALS AND LABOR.																			PAVING.												
					C. I. PIPE.		LARGE FITTINGS.		SMALL FITTINGS.		SPECIAL CASTINGS.		VALVES.		LEAD.		ROPE.		FUEL.	LABOR.	HAULING.	TOTAL COST OF MATERIAL AND LABOR.	BRICKS.		STONE.		SAND.		ASPHALT.		LABOR.	HAULING.	TOTAL COST OF PAVING.	NUMBER OF SQUARE FEET OF PAVING.	COST PER SQUARE FOOT	CAR FARE.	TOTAL COST OF REPAIRS.
					Weight.	Cost.	Weight.	Cost.	Weight.	Cost.	Weight.	Cost.	Number.	Cost.	Weight.	Cost.	Weight.	Cost.	Cost.	Cost.	Cost.		Number.	Cost.	Number Perch.	Cost.	Number Cub. Yds.	Cost.	Number Sq. Feet.	Cost.	Cost.	Cost.					
[illegible]	102	12	3	...		$6 43		$ 75		$10 66		$6 09	2	$11 63		$11 36		$ 92	$10 62	$868 31	$125 62	$1,052 39				$5 00		$17 95		$1,114 85	$763 13	$1,900 93	81,926	.02		$1 10	$2,952 72
[illegible]	24	4	2			9 33		3 14		45 66		5 35	5	60 70		33 04		1 19	8 53	552 17	69 41	788 52			$ 17			60		$121 83	84 14	266 09	4,857	.02		75	1,121 35
[illegible]	72	9	1			11 10				28 74		73	2	21 50		12 04		75	9 60	864 07	89 37	1,037 90						14 25		1,040 75	573 35	1,628 35	81,052	.02		5 10	2,671 35
[illegible]	99	7	1			92 39				59 38		10 36	7	69 10		23 60		1 02	3 82	967 29	96 42	1,323 38			3 25		25 75		123 00	74 78	2,405 52	1,236 60	3,928 90	168,040	.02		2 30	5,254 58
[illegible]	77	5	2			12 77		24		34 25		4 55	3	14 90		12 56		56	2 20	550 11	42 77	674 91					5 00		75 55		2,330 75	1,073 04	3,484 94	154,398	.02		45	4,160 30
[illegible]	55	9	5			12 48		1 10		16 93		2 42	6	34 89		19 36		70	2 97	476 04	59 09	625 98					6 25		54 05		1,678 68	822 00	2,915 54	87,904	.02		15	3,288 52
[illegible]	78	14	6			32 74		35 54		38 11		7 03	8	28 87		28 16		4 14	7 05	571 01	79 80	826 45					20 60		41 93		1,515 63	789 25	2,837 93	100,193	.02		30	5,364 88
[illegible]	91	6	16			54 40		30 27		69 00		20 15	11	98 66		55 28		1 52	11 52	883 00	147 07	1,370 87			1 15		1 55		77 60	199 03	2,070 85	772 60	3,122 78	128,037	.02		20	4,753 85
[illegible]	66	9	9			101 42		4 92		166 54		27 28	7	49 57		78 66		2 22	43 60	1,503 80	206 31	2,184 32			17				34 93	110 64	1,109 08	527 85	2,082 67	80,405	.02		1 80	4,268 74
[illegible]	141	17	5			49 96		10 86		144 01		18 91	11	69 24		68 15		2 20	19 50	1,245 20	181 71	1,809 74			2 51		10 10		30 50	115 47	1,593 33	745 40	2,497 31	98,978	.02		1 40	4,309 45
[illegible]	115	16	4			209 57		53 26		82 82		15 57	9	61 20		66 60		1 66	19 55	1,202 00	195 49	1,907 72			6 48		1 82		39 00	279 68	1,248 83	692 10	2,267 91	84 536	.02		1 60	4,377 23
[illegible]	131	20	3			26 30		56 59		22 96		35 90	8	33 82		35 84		1 38	14 78	1,290 64	172 15	1,690 36			1 07		1 66		50 42	113 39	1,301 88	701 40	2,172 82	81,141	.02			4,385 28
[illegible]	1,051	128	66			$618 89		$166 67		$719 06		$154 34	79	$554 08		$444 65		$18 26	$153 74	$10,976 64	$1,456 21	$15,292 54			$14 80		$77 73		$559 78	$1,539 90	$17,857 29	$8,750 67	$28,800 17	1,118,626	.02		$13 95	$44,106 66

MONTH.	HYDRANTS				FOUNTAINS		VALVES	
	Number Each Size		Total Number	Cost	Number	Cost	Number	Cost
	4 Inch	5 Inch						
January	36	12	48	$20 9	1		22	$129 27
February	8	4	12	13 7			3	10 22
March	5	3	8	18 3	5		2	13 18
April	22	21	43	33 5	2		6	58 72
May	20	22	42	13 5	1		4	11 95
June	7	15	22	20 4	1		3	18 96
July	11	17	28	21 1	2	$1 91	6	18 21
August	12	24	36	36 1	7	3 96	5	16 24
September	5	19	24	24 7	6	3 89	7	23 19
October	12	21	33	29 2	6	3 59	3	5 81
November	8	11	19	20 3	4	11 60	5	9 68
December	18	7	25	27 8	6		3	18 31
Totals	164	176	340	$310 2	41	$54 95	69	$337 04

COST OF REPAIRS TO H

MATERIALS AND LABOR.

C. I. PIPE.		C. I. FITTINGS.		SPECIAL CASTINGS.		LEAD.		ROPE.	
Weight, Lbs.	Cost.	Weight, Lbs.	Cost.	Weight, Lbs.	Cost.	Weight, Lbs.	Cost.	Weight, Lbs.	Cost.
	$9 40		$15 80		$35 50		$15 90		$1 05
					3 77		20		67
	2 40		3 79		5 14		5 08		18
	5 04		6 79		5 71		6 33		26
	82		8 18		18 05		4 29		18
	2 61		2 37		2 62		4 03		20
	3 46		2 70		12 09		1 86		12
	5 27		5 26		12 82		7 59		14
	6 82		11 06		8 00		9 38		22
	8 16		7 47		19 16		7 69		20
	3 82		5 28		8 18		8 65		22
	1 32		1 50		13 48		99		
	$49 30		$70 20		$144 52		$71 99		$3 44

YDRANTS, FOUNTAINS AND VALVES IN 1899.

FUEL	HAULING	LABOR	TOTAL COST MATERIAL AND LABOR.			BRICKS		STONE.	
Cost.	Cost.	Cost	Hydrants	Fountains	Valves.	Number.	Cost	Number Perch.	Cost.
$9 55	$88 15	$762 87	$714 67	$59 69	$317 18		$ 03		
3 01	27 49	276 56	162 16	2 00	171 46				
3 53	30 06	405 04	172 13	154 21	160 75				
2 22	24 57	714 46	299 05	309 39	249 18				
92	18 21	684 86	416 49	218 26	159 30				
85	21 64	462 44	110 34	209 32	216 55				
81	25 92	476 26	177 65	246 84	139 96				
2 81	35 20	670 39	190 07	320 95	285 10				
3 52	25 15	546 90	169 35	272 13	221 36				
2 97	30 21	552 99	188 87	301 81	176 82		2 49		
3 67	38 49	457 36	128 56	314 36	154 41		1 70		
1 77	20 97	498 32	99 00	295 97	189 52		2 49		$ 10
$35 63	$386 06	$6,508 45	$2,828 34	$2,704 93	$2,441 59		$6 71		$ 10

Appendix G

PAVING									TOTAL COST REPAIRS			
SAND		ASPHALT		LABOR.	HAULING.	TOTAL COST PAVING.	NUMBER OF SQUARE FEET PAVING.	COST PER SQUARE FOOT.	CAR FARE.	HYDRANTS.	FOUNTAINS.	[illegible]
Number Cub. Yds.	Cost.	Number Sq. Yds.	Cost.	Cost.	Cost.							
	$ 45			$50 84	$19 65	$70 97	3,128	.02 [illegible]	$1 25	$750 18	$64 43	[illegible]
				11 20	1 35	15 55	679	.02 [illegible]	[illegible]	109 63	3 22	[illegible]
				19 50	9 15	28 95	1,354	.02 [illegible]	80	179 04	160 75	
	50			33 51	13 08	47 06	1,013	.04 [illegible]	55	330 21	314 87	[illegible]
			$23 78	30 24	9 15	63 17	1,809	.02 [illegible]	25	168 19	215 99	[illegible]
				15 61	5 10	20 71	1,011	.02 [illegible]	60	120 91	210 72	[illegible]
	30			29 18	9 30	38 78	1,980	.01 [illegible]	40	153 02	236 61	[illegible]
				31 68	10 50	42 18	1,937	.02 [illegible]	80	201 37	321 35	[illegible]
				17 67	6 90	24 57	1,126	.02 [illegible]	30	176 10	273 40	[illegible]
	05			63 05	21 75	87 31	2,735	.03 [illegible]	40	216 84	303 78	204 02
	45			15 64	13 80	31 59	1,965	.03 [illegible]	10	152 18	307 89	[illegible]
	50			65 08	20 25	84 42	1,975	.04		182 22	315 89	[illegible]
	$2 25		$23 78	$[illegible]3 20	$1[illegible]9 [illegible]	[illegible] 5 29	20,721	.02	$[illegible] 35	$3 [illegible]	$2 728 90	[illegible]

COST OF MISCELLANEOUS WORK DONE IN 1899.

MONTH.	MATERIAL AND LABOR.				PAVING.						CAR FARE.	TOTAL COST OF WORK.
	MATERIALS.	LABOR.	HAULING.	TOTAL COST MATERIAL AND LABOR.	MATERIALS.	LABOR.	HAULING.	TOTAL COST OF PAVING.	NO. SQUARE FEET PAVING.	COST PER SQUARE FOOT.		
	Cost.	Cost.	Cost.		Cost.	Cost.	Cost.					
January	$39 99	$3,711 12	$106 97	$3,858 08	.....	$18 87	$6 75	$25 62	972	.02 64/100	$17 90	$3,901 60
February	31 69	3,130 80	76 97	3,239 46	.....	5 20	2 10	7 30	291	.02 50/100	5 00	3,251 76
March	61	2,869 10	106 85	2,976 56	3	27 97	11 10	39 10	1,810	.02 16/100	12 05	3,027 71
April	.....	3,049 93	92 98	3,142 91	.....	31 02	11 10	42 12	1,596	.02 64/100	18 95	3,203 98
May	40	2,408 55	96 07	2,505 02	.....	33 63	11 55	45 18	1,716	.02 63/100	11 45	2,561 65
June	.....	2,582 34	141 08	2,723 42	20	25 27	8 75	34 22	1,568	.02 18/100	10 10	2,767 74
July	.....	3,272 40	160 20	3,432 60	.....	124 68	48 75	173 43	7,921	.02 19/100	15 10	3,621 13
August	.....	2,840 50	121 63	2,962 13	.....	156 17	62 70	218 87	9,259	.02 36/100	18 95	3,199 95
September	.....	2,611 55	95 97	2,707 52	.....	78 40	29 10	107 50	5,592	.01 92/100	14 70	2,829 72
October	1 40	2,690 55	95 50	2,787 45	3 55	116 18	41 25	160 98	5,756	.02 79/100	6 25	2,954 68
November	1 10	2,274 92	90 90	2,366 92	3 19	109 25	28 20	140 64	5,846	.02 41/100	5 00	2,512 56
December	12 71	2,589 86	113 41	2,715 98	2 06	95 93	37 80	135 79	4,638	.02 93/100	.....	2,851 77
Total	$87 90	$34,031 62	$1,298 53	$35,418 05	$9 03	$822 57	$299 15	$1,130 75	46,965	.02 41/100	$135 45	$36,684 25

SUMMARY OF DISBURSEMENTS AND RECEIPTS FOR 1899

DISBURSEMENTS.

ITEMS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
West Arlington standpipe	$1,865 84	$253 77		$926 84		$2,230 63	$3,101 67	$ 275 16	$ 949 57	$ 3,246 50	$ 2,350 50	$ 418 00	$ 15,618 48
Books, printing and stationery	354 96	198 82	$ 297 78	39 79	$ 335 45	83 53	141 34	121 31	134 05	204 25	139 13	17 00	2,067 41
Drawing material	253 85	31 25	15 45	1 50	20 99	3 40		3 00	25 10	15 15	4 00	5 42	379 11
Office furniture and fixtures	127 45	267 55	11 00	2 00	10 50	3 00			19 50				441 00
Light and fuel	2,450 92	907 02	703 39	884 73	2,054 93	2,212 07	282 31	1,458 22	1,243 37	879 00	1,262 57	981 58	15,320 11
Salaries	7,914 08	7,437 25	7,827 70	8,250 72	8,643 28	8,293 82	8,292 01	8,553 59	8,581 95	9,392 95	9,714 72	9,318 73	102,220 80
Labor	18,580 07	11,921 37	19,369 69	28,207 44	28,872 30	26,743 83	21,400 85	21,696 22	29,566 11	24,938 07	26,244 66	30,010 43	287,551 04
Hauling	175 88	533 19	334 08	232 15	591 91	68 25	550 72	377 78	461 04	311 55	478 02		4,114 57
Mt. Royal Pumping Station						7,104 67	3,690 00	804 00	1,249 68	1,946 13	6,989 00	14,695 04	36,178 52
Pumps and boilers			5,393 96										5,393 96
Tools and machinery	1,262 26	997 58	1,521 18	3,162 53	3,086 04	715 09	6,127 29	279 94	334 21	1,210 95	845 90	491 44	20,034 41
Cast-iron pipe	50,677 50				371 69	7,765 20	10,337 52	1,937 73		23,023 53	1,160 76		95,273 93
Large pipe-fittings	5,112 32				971 25	259 01		525 06		2,281 04	304 02		9,452 70
Special iron-castings	457 80	372 49	510 67	1,158 54	1,314 03	1,123 92	835 09	3,419 12	1,001 53	1,777 94	1,541 98	440 00	13,953 11
Valves	1,010 81		2,558 92	1,258 48	335 96	237 50	3,173 76	228 44	102 96	132 12	550 38	645 50	10,234 83
W. I. pipe and fittings	818 79	144 09	122 71	123 48	1,315 30	172 18	1,801 11	1,448 82	2,011 72	546 69	1,655 10	12 31	10,172 30
Brass-castings	51 22		502 28	704 53	419 14	221 35	434 69	575 68	19 29	103 82	256 43		3,288 13
Bar iron and steel			48 00	38 58	171 27		590 30			158 22	252 28		1,258 65
Meters		334 50	1,244 40	960 00	505 00		883 80	1,001 50	609 00	1,792 88	1,497 40	825 00	9,653 48
Lead												9,553 52	9,553 52
Lumber	54 00	395 36	191 49		1,051 84	765 37	157 57	538 12		436 43	714 06		4,304 24
Rope and packing	47 63		131 53	50 80	55 58	55 72	41 23	64 78	119 09	48 83			615 19
Waste and oil	235 79	257 49	14 48	295 00	193 68	124 83	170 36	304 91	41 53	236 60	196 89	47 86	2,119 42
Rubber	64 07	64 18		123 62		282 01	68 90	9 84	419 53	95 75	44 79	269 00	1,141 69
Bricks, stone and cement	398 40	49 50	252 46	143 50	1,496 20	312 75	1,577 04	355 71	820 94	264 60	177 25	181 79	6,030 14
Sand, gravel and ashes	39 70	5 00	65 95	167 75	224 25	86 75	45 40	124 95	87 70	102 50	91 25	23 80	1,065 00
Asphalt paving	279 33				623 48		486 97	716 84	234 46	1,090 14	417 33		3,848 55
Feed	33 40		30 00		186 18	9 00	94 44		51 05	124 07	52 45	10 00	599 59
Current expenses	739 65	309 90	79 19	155 09	270 98	666 95	198 05	207 32	351 16	176 06	150 22	251 40	3,555 97
Miscellaneous	438 19	5,723 64	2,139 93	4,384 24	7,297 93	5,249 54	4,028 16	3,358 62	1,583 92	1,945 16	4,097 56	3,461 54	42,811 43
Total	$93,443 91	$30,203 95	$43,366 24	$51,271 31	$60,419 16	$64,790 37	$68,510 58	$48,395 66	$50,018 46	$75,580 93	$61,188 65	$71,662 36	$718,851 58

RECEIPTS.

ITEMS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
New services inserted	$924 00	$ 576 00	$2,022 00	$4,146 00	$2,676 00	$2,670 00	$3,246 00	$3,702 00	$3,594 00	$2,640 00	$2,352 00	$1,848 00	$30,396 00
Metered supplies inserted	1,350 34	1,325 96	2,795 51	2,552 56	1,761 14	6,397 33	3,708 55	3,707 28	2,397 19	2,267 78	3,369 20	2,734 20	34,367 04
Repairs	368 06	209 92	304 25	398 30	305 39	321 76	760 15	992 91	841 87	606 56	841 00	616 17	6,266 34
Sand, etc													
Total	$2,642 40	$2,111 88	$5,121 76	$7,096 86	$4,742 53	$9,389 09	$7,714 70	$8,402 19	$6,833 06	$5,514 34	$6,202 20	$5,198 37	$70,969 38
Scrap			$277 26			$269 84	$ 14,29					$795 34	$1,356 73
Old brass			243 14			292 98	158 51					198 66	893 29
Pipe and castings	$1 10	$ 25		$15 82	$37 68	6 31	102 14	$2 25	$25 36	$28 00			218 61
Coal												50 00	50 00
Miscellaneous		106 25	158 98				5,266 26	38		75	$1 00	95 80	5,629 42
Total	$1 10	$106 50	$679 38	$15 82	$37 68	$569 13	$5,541,20	$2 63	$25 36	$28 75	$1 00	$1,139 80	$8,148 35
Hay, fodder, etc	$158 46	$43 60	$12 00	$142 28	$97 49	$60 87	$27 17	$52 24	$87 56	$69 07	$245 52	$353 10	$1,349 36
Horses, mules, wagons and harness					7 25								84 96
Wood		8 00		41 36		1 35		1 75	6 00		5 75	13 50	74 10
Sand	6 90	5 50			4 70							57 00	
Ice													
Rent	9 00	14 00	17 76	14 00	14 00	22 00	18 00		14 00	$14 00	14 00	259 00	399 76
Total	$174 36	$71 10	$29 76	$197 64	$123 44	$84 22	$45 17	$53 99	$107 56	$83 09	$265 27	$672 60	$1,908 18
Grand total	$2,817 86	$2,289 48	$5,830 90	$7,310 32	$4,903 65	$10,042 44	$13,301 07	$8 458 81	$6,965 98	$5,626 16	$6,468 47	$7,010 77	$81,025 91

COUNTY MECHANICAL CONSTRUCTION DIVISION.

STATEMENT OF EXPENDITURES FOR 1899.

CHARGED TO $2,000,000 LOAN

Appendix L.

MONTHS.	Books, Stationery Printing.	W. I. S. Pipe	Office Furniture and Fixtures.	Light and Fuel	Salaries.	Labor.	Hauling.	Mt. Royal Pumping Station.	Pumps and Boilers.	Tools and Machinery	Cast Iron Pipe.	Large Pipe Fittings.	Special Iron Castings.	Valves	W. I. Pipe and Fittings.	Brass Castings.	Bar Iron and Steel	Lead.	Lumber	Rope and Packing.	Waste and Oil.	Rubber.	Bricks, Stone and Cement.	Sand, Gravel and Ashes.	Asphalt Paving.	Current Expenses.	Miscellaneous.	TOTAL.
January	$40 25	$1,895 81		$153 30	$3,198 99	$6,057 23	$175 88			$16 21	$50,677 50	$5,112 32	$354 51	$822 11						$43 93	$5 72		$200 50	$33 45	$86 29	$91 49		$69,057 82
February	140 87	253 77	$17 00	19 40	2,944 15	2,301 11	533 16						177 14						$37 59		5 72				2 50	20 80	$16 50	6,469 74
March	24 25				3,096 47	6,457 16	334 08		$5,393 96	158 20			374 30	2,558 92		$237 75			186 77	59 81	5 72		131 70	41 95		1 33	584 75	19,614 12
April	47 79	926 84		39 90	3,331 65	13,170 44	232 15			218 85			941 24	1,255 35		287 28			7 50	5 04	$29 00	143 50	55 00		13 40	10 00	20,695 53
May	18 85			30 00	3,116 15	15,846 50	591 91			1,389 11	371 69	971 25	673 63	335 96	$14 03	190 33	$166 43		934 33	35 58	5 70		1,245 31	133 50	457 10	128 00	1,775 73	28,147 72
June	1,561	2,230 63	3 00	25 25	2,980 50	12,887 68	68 25	$7,101 67			7,795 20	259 01	386 24	118 75		13 72			658 22	18 22	6 76	148 57	243 65	25 57		69 12	12 75	34,739 67
July	15 75	3,101 67		56 80	2,943 80	8,375 84	550 72	3,060 00		5,023 91	10,337 52		587 65	2,173 26	1 90	101 12	590 30		135 05		9 76		1,577 04	15 20	174 72	10 92	27 83	39,826 55
August	8 50	275 16		21 82	2,961 94	8,978 10	377 78	804 00		16 20	1,937 73	525 06	948 31	228 44	20 00	383 79			511 71		23 11		335 01	13 75	486 18	13 95		18,630 24
September	10 68	919 87		10 00	2,986 61	13,941 03	461 04	1,249 68		102 61			671 23	102 96						63 78	7 00	21 75	739 09	55 50	35 70	20 59	77 25	21,205 50
October	80 43	3,246 80		25 05	2,771 15	12,324 17	311 55	1,446 13		80 00	23,023 53	2,281 04	788 58	132 12	3 60	69 20			112 18	25 83	28 77	42 30	248 50	72 50	725 75	2 01	12 81	48,359 63
November	21 29	2,350 50		38 05	2,573 15	11,280 09	178 02	6,489 00		118 47	1,100 76	304 02	981 08	550 38	839 70	163 70	92 14		257 82		26 27		128 25	5 50		3 00	268 75	31,809 94
December		118 00			2,699 15	16,262 15		11,965 01						600 00				$6,369 01			20 03		173 07	14 80		99 19	16 15	41,367 49
Totals	$431 07	$18,618 18	$20 00	$426 17	$35,811 53	$129,680 80	$4,111 57	$36,178 52	$5,393 96	$7,153 86	$95,273 93	$9,452 70	$6,883 91	$8,878 55	$879 23	$1,746 89	$848 87	$6,369 01	$2,827 67	$251 05	$150 20	$241 62	$5,265 25	$499 22	$1,966 04	$477 10	$2,772 55	$379,923 95

CHARGED TO WATER BOARD ACCOUNT.

MONTHS	Books, Stationery Printing.	Drawing Materials.	Office Furniture and Fixtures	Light and Fuel.	Salaries	Labor	Hauling.	Tools and Machinery.	Cast Iron Pipe.	Large Pipe Fittings.	Special Iron Castings.	Valves.	W. I. Pipe and Fittings.	Brass Castings.	Bar Iron and Steel.	Meters.	Lead.	Lumber.	Rope and Packing.	Waste and Oil.	Rubber.	Bricks, Stone, Cement.	Sand, Gravel and Ashes.	Asphalt Paving.	Feed.	Current Expenses.	Miscellaneous.	TOTAL.
January	$314 71	$253 85	$127 15	$2,207 62	$1,771 09	$12,502 81		$1,246 05			$103 29	$188 40	$818 79	$51 22			$54 00		$3 70	$230 07	$64 07	$98 90	$6 25	$193 04	$33 10	$615 10	$138 16	$24,386 09
February	57 95	31 28	250 55	887 02	1,493 10	9,620 26		697 58			195 35		144 09				357 77		251 77	64 18	49 50	2 50				289 10	5,707 14	23,734 21
March	273 53	15 15	11 00	703 30	1,728 23	12,012 53		1,362 98			136 37		122 71	264 53	$15 00	1,244 40	10 72	71 72	8 76		120 76	21 00		30 00	77 86	1,585 18	23,752 12
April	12 00	1 50	2 00	844 83	1,484 97	15,037 00		2,943 68			217 30	3 13	123 48	417 25	38 58	960 00		43 30	289 36	94 62		112 75				141 69	4,374 24	30,575 78
May	316 60	20 99	10 50	2,004 93	5,521 13	13,322 80		1,696 63			640 40		1,301 27	228 81	4 84	505 00	117 51	20 00	187 98		250 86	90 75	166 68	186 18	142 98	5,522 20	32,271 14
June	69 92	3 40		2,486 82	5,313 02	14,156 15		715 00			737 68	118 75	172 18	207 63			107 15	37 50	118 07	133 44	69 10	61 18			9 00	597 83	5,236 79	30,050 70
July	95 59			231 51	5,349 42	13,925 01		1,103 38			247 44	1,000 50	1,799 21	33 57		883 80	22 52	11 23	166 60	68 90				91 11	187 13	1,000 33	28,684 03
August	112 81	3 00		1,436 40	5,561 05	13,018 12		233 71			2,470 81		1,428 82	191 89		1,001 50	26 41	64 78	281 80	9 81	20 70	81 20	230 66	9 00	193 37	3,358 62	29,705 42
September	123 07	25 10	10 50	1,233 37	5,568 31	15,025 68		231 60			330 30		2,011 72	19 29		609 00		55 31	34 53	397 78	81 85	32 20	198 76	51 05	330 57	1,506 67	28,812 96
October	123 82	18 15		881 35	6,618 80	12,613 80		1,130 95			989 36		543 09	34 62	158 22	1,792 88	324 25	23 00	207 83	53 15	16 10	30 00	361 30	121 07	171 08	1,032 32	27,221 30
November	111 84	1 00		1,221 52	6,030 87	11,988 57		727 13			560 90		815 40	92 73	160 14	1,497 40	456 21		170 62	44 79	19 00	85 75	117 33	52 45	147 27	3,805 81	29,375 71
December	17 00	5 42		984 58	6,614 58	13,745 28		191 41			110 00	45 50	12 31			825 00	$3,184 51		27 83	269 00	8 42		9 00		10 00	151 91	3,448 30	30,294 87
Totals	$1,032 71	$379 11	$121 00	$14,893 94	$66,410 27	$157,870 21		$12,880 55			$7,069 20	$1,356 28	$9,293 07	$1,511 51	$109 78	$9,653 48	$3,184 51	$1,476 57	$360 51	$1,960 22	$1,200 07	$791 89	$505 78	$1,882 51	$599 51	$3,078 87	$40,038 88	$338,927 63

EXPENDITURES FOR 1899.

$2,000,000 Loan	$379,923 95
Water Board	338,927 63
	$718,851 58

Operation of Pumps.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
From W. P. Station to Upper Service	2,179,055	3,008,707	3,241,024	2,248,742	3,199,650	3,797,422	5,103,514	5,623,728	4,231,704	3,409,992	2,921,832	3,274,160	42,239,530
" " " " W. H. "	18,140,362	29,499,767	34,009,431	37,954,188	29,719,125	93,978,998	125,033,436	116,709,646	106,560,656	71,959,474	58,058,936	60,885,216	782,509,235
" Mt. R. P. Station to W. H. Service													
" E. " " " " " "	323,409,780	314,749,392	346,694,576	344,187,992	410,689,432	339,974,872	353,927,144	359,127,616	315,664,240	350,016,880	354,155,200	349,173,160	4,161,770,284
" " " " " Middle "	25,840,000	2,052,000	127,680,000	27,740,000	136,800,000	131,670,000	119,890,000	141,360,000	127,490,000	161,500,000	136,800,000	122,360,000	1,261,182,000
" Mt. R. " " " " "										5,000,000	99,020,123	33,032,996	137,053,119
High Service Reservoirs.													
Rainfall in High Service Reservoir in inches	2.68	5.45	5.36	2.00	4.03	2.15	2.16	3.71	8.21	4.05	1.74	2.51	44.05
" " " " " gallons	394,871	803,003	789,742	294,680	593,780	316,781	318,254	546,631	1,209,661	596,727	256,342	369,823	6,490,295
Gain or loss in High Service Reservoir	— 368,350	— 7,219,660	+ 5,893,600	— 7,072,320	+ 3,536,160	+ 368,350	+ 736,700	+ 884,040	— 3,388,820	+ 5,304,240	— 2,799,460	— 1,178,720	
Rainfall in Guilford Reservoir in inches	3.20	8.10	5.23	2.00	5.00	2.30	2.10	3.40	7.60	2.30	1.70	1.80	44.73
" " " " " gallons	603,187	926,818	985,834	376,992	942,450	433,541	395,842	640,886	1,432,570	433,541	320,443	339,293	
Gain or loss in Guilford Reservoir	— 236,620					— 942,480	— 1,130,976	— 942,480			+ 942,480	+ 942,480	7,831,397
Recapitulation.													
Total Upper Service Consumption	2,179,055	3,008,707	3,241,024	2,248,742	3,199,650	3,797,422	5,103,514	5,623,728	4,231,704	3,409,992	2,921,832	3,274,160	42,239,530
" High " "	343,153,170	353,198,640	376,585,983	389,886,172	441,944,817	435,278,322	480,068,952	477,083,219	428,255,947	417,702,382	414,647,901	411,004,732	4,968,810,237
" Middle " "	278,739,094	277,915,076	367,520,114	306,092,910	460,956,420	463,994,563	449,576,933	473,683,429	642,303,790	415,612,453	380,275,248	345,942,376	4,862,612,406
" Low " "	684,415,260	610,669,763	796,188,105	509,700,801	480,972,679	503,220,114	689,652,385	815,899,319	902,737,895	959,704,140	706,519,322	683,830,058	8,343,509,841
" Consumption per month	1,308,486,579	1,244,792,186	1,543,535,226	1,207,928,625	1,387,073,566	1,406,290,421	1,624,401,784	1,772,289,695	1,977,529,336	1,796,428,967	1,504,364,303	1,444,051,326	18,217,171,934
Average " " day	42,209,244	44,421,149	49,785,007	40,264,288	44,744,309	46,876,347	52,400,058	57,170,635	65,917,644	57,952,547	50,145,477	46,582,301	49,910,060

JONES' FALLS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Clear water over dam, per month	738,286,588	1,303,725,631	1,305,062,559	322,800,627	468,534,623	85,311,338	6,449,448	.....	.....	6,303,437	261,346,791	87,731,945	4,585,552,787
Muddy water over dam, per month	.....	.....	638,318,337	560,384,470	.....	.....	.....	.....	595,874	4,686,776	.....	.....	1,203,985,457
Waste from Drain Gates, Lake Roland	56,871,936	171,369,792	523,695,744	298,362,240	160,275,456	.....	.....	.....	105,557,760	67,320,000	158,444,352	65,812,032	1,607,709,312
Clear water through Conduit Gates	278,340,400	288,293,690	278,473,805	269,224,200	376,761,050	388,827,070	437,513,353	441,634,547	557,240,888	444,028,640	187,449,040	290,102,080	4,234,917,205
Total flow of stream, per month	1,073,498,924	1,763,389,113	2,745,550,445	1,450,771,537	1,005,571,129	474,138,408	363,962,801	366,634,547	863,394,522	442,338,853	607,240,183	443,646,057	4,809,534,096
Average flow of stream, per day	34,628,998	62,978,183	88,566,143	48,359,051	32,437,778	15,804,614	11,740,736	11,826,921	28,779,817	14,268,995	20,241,339	14,311,163	13,176,806
Waste from Harper's Waste Weir	.....	.....	.....	.....	.....	2,971,558	.....	.....	.....	.....	.....	.....	2,971,558
Clear water sent to Hampden Reservoir	278,340,400	288,293,690	278,473,805	269,224,200	376,761,050	385,855,512	437,513,353	441,634,547	557,240,888	444,028,640	187,449,040	290,102,080	4,234,917,205
Rainfall in Hampden Reservoir, in inches	3.34	6.26	5.49	2.08	4.10	2.34	2.09	3.53	8.50	4.20	1.91	1.49	45.33
Rainfall in Hampden Reservoir, in gallons	724,346	1,357,606	1,190,616	451,090	889,167	507,476	453,258	765,551	1,843,395	910,854	414,222	323,136	9,830,717
Gain or loss in Hampden Reservoir	+ 1,030,133	+	.....	.....	.....	— 1,301,220	— 2,168,700	.....	— 14,000,000	+ 20,819,520	— 5,855,490	+ 7,807,320	.....
Water sent to Druid Lake by gravity	278,034,613	289,651,296	279,664,421	269,675,290	377,650,217	387,664,208	440,135,311	442,400,098	573,084,283	424,119,974	193,718,752	282,294,760	4,238,093,223
Rainfall in Druid Lake, in inches	2.95	5.45	5.37	2.00	3.97	1.97	2.24	3.89	7.93	3.90	1.57	1.53	42.77
Rainfall in Druid Lake, in gallons	4,658,198	8,605,822	8,479,499	3,158,100	6,268,828	3,110,728	3,898,072	6,140,505	12,521,867	6,158,295	2,479,109	2,415,946	67,894,969
Waste from Druid Lake	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gain or loss in Druid Lake	+ 9,474,300	— 7,105,725	+ 11,053,350	— 45,722,450	+ 26,843,850	— 35,528,625	— 15,790,500	— 6,316,200	— 40,000,000	+ 105,796,350	— 6,316,200	+ 30,001,950	.....
Total sent to City, per month	273,218,511	305,362,843	277,090,569	318,555,840	357,075,195	426,303,561	459,823,883	454,856,803	625,606,150	324,481,919	202,514,061	254,708,756	4,279,598,091
Average sent to City, per day	8,813,500	10,905,816	8,938,405	10,618,528	11,518,555	14,210,119	14,833,028	14,672,800	20,853,538	10,467,159	6,750,469	8,216,412	11,724,926
Total waste, per month	795,158,524	1,475,095,423	2,467,076,640	1,181,547,337	628,810,079	88,282,896	6,449,448	.....	106,153,634	78,310,213	419,791,143	153,543,977	7,400,219,314
Average waste, per day	25,650,920	52,681,979	79,583,118	39,384,911	20,284,196	2,942,763	208,047	.....	3,538,454	2,526,136	13,993,038	4,953,032	20,274,573

GUNPOWDER.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Clear water over dam, per month	2,153,497,173	2,416,161,168	4,966,761,850	3,259,002,348	2,078,216,393	1,626,242,876	533,046,334	708,778,811	796,547,670	1,812,132,466	1,465,345,505	1,619,610,409	23,435,343,003
Muddy water over dam, per month	1,369,499,695	5,141,409,164	3,481,294,969	691,453,519	480,210,096	.....	637,194,928	754,489,208	3,768,767,276	.....	1,419,602,810	508,685,638	18,252,607,303
Waste from Drain Gates, Loch Raven	3,904,646,103	4,333,158,964	7,764,317,680	6,488,197,608	4,975,204,218	2,425,564,482	1,729,705,812	1,526,223,436	1,368,496,432	828,752,208	1,544,492,384	778,524,576	37,667,283,903
Clear water through Conduit Gates	1,173,586,992	870,047,585	1,405,568,946	1,089,359,405	1,097,116,563	1,117,404,636	1,142,989,586	1,163,972,647	1,337,223,413	1,598,204,820	1,376,275,774	1,267,923 836	14,639,674,203
Total flow of stream, per month	8,601,229,963	12,760,776,881	17,617,943,445	11,528,012,880	8,630,747,270	5,169,211,994	4,042,936,660	4,153,464,102	7,271,034,791	4,239,089,494	5,805,716,473	4,174,744,459	93,994,908,412
Average flow of stream, per day	277,459,031	455,742,031	568,320,756	384,267,096	278,411,202	172,307,066	130,417,312	133,982,713	242,367,826	136,744,822	193,523,882	134,669,175	257,520,297
Spring water making into Conduit	93,000,000	84,000,000	93,000,000	90,000,000	93,000,000	90,000,000	93,000,000	93,000,000	90,000,000	93,000,000	90,000,000	93,000,000	1,095,000,000
Waste from Drain Gates, Lake Montebello	157,163,820	104,299,626	84,773,212	253,979,636	125,566,536	173,225,154	80,072,832	64,820,864	48,816,035	124,064,167	120,016,008	121,444,770	1,458,242,660
Waste over Weirs, Lake Montebello	63,450,985	83,682,109	32,201,733	52,965,374	43,514,056	49,564,339	37,327,426	25,853,615	8,389,640	48,864,210	39,639,525	51,677,608	507,130,620
Rainfall, Lake Montebello, in inches	4.05	6.16	4.96	1.96	4.15	2.15	1.12	3.72	7.24	3.76	1.64	1.38	42.29
Rainfall, Lake Montebello, in gallons	6,581,230	10,009,969	8,059,975	3,184,990	6,743,729	3,493,739	1,819,994	6,044,981	11,764,964	6,109,971	2,664,992	2,242,493	68,721,027
Gain or loss in Lake Montebello	+ 13,162,460	— 73,937,273	+ 77,999,760	.....	.....	+ 16,249,950	— 25,999,920	— 92,624,715	+ 25,999,920	+ 29,249,910	+ 9,749,970	+	.....
Water sent to Lake Clifton	1,039,399,957	859,013,092	1,311,654,216	875,599,385	1,027,779,700	971,858,932	1 146,409,242	1,265,067,864	1,355,782,782	1,495,130,504	1,299,535,263	1,190,043,951	13,858,271,888
Waste from Drain Gates, Lake Clifton	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Waste over Weirs, Lake Clifton	335,730	621,773	.....	.....	.....	129,584	.....	.....	.....	67,106	.....	161,980	1,316,173
Rainfall in Lake Clifton, in inches	3.26	5.16	5.43	1.98	4.29	2.13	2.75	4.41	7.55	4.18	1.48	1.28	43.90
Rainfall in Lake Clifton, in gallons	2,816,027	4,457,330	4,690,501	1,710 348	3,705,753	1,839,920	2,375,483	3,809,411	6,521,781	3,610,734	1,278,442	1,105,679	37,921,409
Gain or loss in Lake Clifton	+ 8,206,214	— 13,622,506	+ 45,782,036	4,319,060	+ 3,023,342	— 1,295,718	— 14,684,804	— 47,509,660	+ 16,412,428	+ 22,459,112	+ 4,319,060	+ 2,591,436	.....
Total sent to City, per month	1,033,665,040	923,471,155	1,270,562,681	881,628,793	1,028,462,111	974,864,986	1,163,469,529	1,316,386,935	1,345,892 135	1,476,221,020	1,296,494,645	1,188,396,214	13,903,515,244
Average sent to City, per day	33,344,034	33,123,970	40,985,893	29,387,626	33,176,197	32,495,500	37,531,275	42,464,095	44,863,071	47,620,033	43,216,488	38,335,362	38,091,823
Total waste, per month	7,648,593,506	12,076,332,804	16,329,349,444	10,745,598,485	7,702,711,299	4,274,726,435	3,017,347,332	3,080,165,934	5,991,017,053	2,813,880,157	4,589,096,232	3,080,104,981	81,321,923,662
Average waste, per day	246,728,823	433,333,314	526,753,208	358,186,616	248,474,558	142,490,881	97,333,785	99,360,191	199,700,568	90,770,328	152,969,874	99,358,225	222,799,791

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